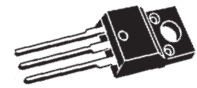


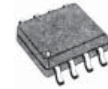
Integrated Circuits

ICs for Power Management



C 1

Analogue ICs



C 4

Digital ICs



C 13

Memories



C 18

Microprocessors



C 23

Interfaces



C 35

RTC and Supervising ICs



C 40

Converters



C 41

Sockets



C 43

Sensors



C 44

Positive Voltage Regulators (linear)

Part No.	Ord. No.	Description
100mA		
S 78 L 05 ACD	23203	Voltage regulator SMD 5V/0,1A SO8
S 78 L 12 ACD	23874	Voltage regulator SMD 12V/0,1A SO8
S 78 L 05 ACY	35994	Voltage regulator SMD 5V/0,1A SOT89
S 78 L 02	18906	Voltage regulator 2,6V/0,1A TO92
S 78 L 05	17688	Voltage regulator 5V/0,1A TO92
S 78 L 06	18907	Voltage regulator 6V/0,1A TO92
S 78 L 08	17689	Voltage regulator 8V/0,1A TO92
S 78 L 09	18908	Voltage regulator 9V/0,1A TO92
S 78 L 10	18909	Voltage regulator 10V/0,1A TO92
S 78 L 12	17690	Voltage regulator 12V/0,1A TO92
S 78 L 15	17691	Voltage regulator 15V/0,1A TO92
500mA		
S 78 M 05 ACDTG	45433	Voltage regulator 5V/0,5A DPAK
O 78 M 12 CDT	42456	Voltage regulator 12V/0,5A D-PAK
1A		
S 7805	17692	Voltage regulator 5V/1A TO220
S 7805 S	35953	Voltage regulator 5V/1A TO220 ISO
S 7806	17693	Voltage regulator 6V/1A TO220
S 7808	17694	Voltage regulator 8V/1A TO220
S 7809	30563	Voltage regulator 9V/1A TO220
S 7810	17695	Voltage regulator 10V/1A TO220
S 7812	17696	Voltage regulator 12V/1A TO220
S 7812 S	35958	Voltage regulator 12V/1A TO220 ISO
S 7815	17697	Voltage regulator 15V/1A TO220
S 7818	17698	Voltage regulator 18V/1A TO220
S 7824	17699	Voltage regulator 24V/1A TO220
1,5A		
S 7805 CD2T	55168	Voltage regulator 5V/1,5A D2PACK
2A		
S 78 S 05	17716	Voltage regulator 5V/2A TO220
S 78 S 09	17718	Voltage regulator 9V/2A TO220
S 78 S 12	17720	Voltage regulator 12V/2A TO220
S 78 S 15	17721	Voltage regulator 15V/2A TO220
S 78 S 24	17723	Voltage regulator 24V/2A TO220
3A		
S 78 T 05 CT	40705	Voltage regulator 5V/3A TO220
S 78 T 12 CT	40706	Voltage regulator 12V/3A TO220

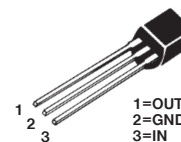
SO - 8



SOT - 89



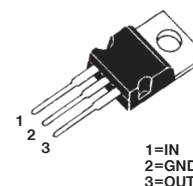
TO - 92



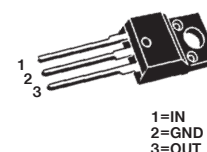
D-PAK



TO - 220



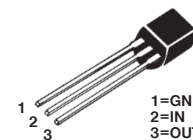
TO - 220 ISO



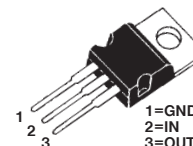
Negative Voltage Regulators (linear)

Part No.	Ord. No.	Description
100mA		
S 79 L 05	18910	Voltage regulator -5V/0,1A TO92
S 79 L 12	18911	Voltage regulator -12V/0,1A TO92
S 79 L 15	18912	Voltage regulator -15V/0,1A TO92
1A		
S 7905	17700	Voltage regulator -5V/1A TO220
O 79005 S	35963	Voltage regulator -5V 1A TO220 ISO
S 7908	17701	Voltage regulator -8V/1A TO220
S 7909	6950	Voltage regulator -9V/1A TO220
S 7912	17702	Voltage regulator -12V/1A TO220
S 7915	17703	Voltage regulator -15V/1A TO220
S 7918	17704	Voltage regulator -18V/1A TO220
S 7924	17705	Voltage regulator -24V/1A TO220

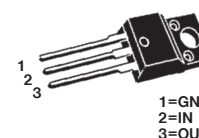
TO - 92



TO - 220



TO - 220 ISO



LOW-DROP OUT Voltage Regulators (linear)

The very Low Drop voltage and the very low quiescent current make them particularly suitable for Low Noise, Low Power applications and specially in battery powered systems.

Part No.	Ord. No.	Description
O LD 1117 DT 33	51017	Voltage regulator LDO 3.3V, 800mA, DPAK
O LD 1117 S 33	53728	Voltage regulator LDO 3.3V, 800mA, SOT223
S LF 33 CDT	43893	Voltage regulator LDO 3,3V/1A DPAK
S LF 33 CV	40380	Voltage regulator LDO 3,3V/1A TO220
S LF 50 CDT	40379	Voltage regulator LDO 5V/0,5A DPAK
O LF 50 CV	49421	Voltage regulator LDO 5V/0,5A TO220AB
S LM 1085 IT-ADJ NOPB	53984	Voltage regulator LDO AdjV/3A TO220
O LM 1086 CS-3,3NOPB	48920	Voltage regulator LDO 3,3V/1,5A TO263
O LM 1086 CT-ADJ	51045	Voltage regulator LDO Adj/1,5A TO-220
O LM 1086 IS-5,0	52748	Voltage regulator LDO 5V/1,5A TO263
S LM 2575S-5.0 NOPB	44497	Step-Down switching regulator 5.0V/1A 5pin TO263
O LM 2936 Z-3.0/NOPB	51063	Voltage regulator LDO 3,0V TO92
O LM 2936 Z-3.3	50369	Voltage regulator LDO 3,3V TO92
S LM 2936 Z-5.0/NOPB	3498	Voltage regulator LDO 5V/0,1A TO92
S LM 2937 ES-3.3/NOPB	44657	Voltage regulator 3,3V TO263
S LM 2940 CS-5,0	49006	Voltage regulator LDO 5V/1A TO263
S LM 2940 CT-12V	2779	Voltage regulator LDO 12V/1A TO220
S LM 2940 CT-5.0 NOPB	3818	Voltage regulator LDO 5V/1A TO220
S LP 2950 CZ-3.0	5557	Voltage regulator LDO 3V/0,16A TO92
S LP 2950 CZ-5,0	5733	Voltage regulator LDO 5V/0,16A TO92
S LP 2950A CZ-3,3	43771	Voltage regulator LDO 3,3V/0,1A 0,5% TO92
S LP 2980 IM5-ADJ	50248	Voltage regulator ULDO 50mA SOT23-5
S TPS 76433 DBVTG4	71128	LDO regulator 150mA/3.3V SOT23-5
S TPS 76428 DBVTG4	71129	LDO regulator 150mA/2,8V SOT23-5
S TPS 76425 DBVTG4	71130	LDO regulator 150mA/2,5V SOT23-5
O LT 1084 CP	30013	Voltage regulator LDO Adj/5A TO247
O LT 1129 CQ-5	50315	Voltage regulator LDO 5V/0,5A D2PAK
O LT 1129 CT	43886	Voltage regulator LDO 3,75-30V TO220-5
O LT 1763 CS8-3,3	50941	Voltage regulator LDO 500mA SO8
O LT 1964 ES5-BYP	52955	Voltage regulator LDO Neg., Micropower SOT23-5
S REG 1117 -3,3	49319	Voltage regulator LDO 3,3V/0,8A SOT223
O REG 1117 A-1,8	49317	Voltage regulator LDO 1,8V/1A SOT223
S TS 1085 CZ-ADJ	54701	Voltage regulator LDO AdjV/3A TO220

Adjustable Voltage Regulators (linear)

Part No.	Ord. No.	Description
S L 200 CV	17745	Voltage regulator adjustable 2A TO220/5 Vertical
O LM 317 LM	48401	Voltage regulator adjustable 1,2-37V SO8
S LM 317 LZ	37662	Voltage regulator adjustable 1,2-37V/0,1A TO92
O LM 317 MDT	53872	Voltage regulator adjustable 1,2-37V/0,5A DPAK
S LM 317 T	17769	Voltage regulator adjustable 1,2-37V/1,5A TO220
O LM 317A EMP	48503	Voltage regulator adjustable 1,2-37V SOT223
S LM 337 SP (LM 337 T)	17780	Voltage regulator adjustable -1,2-37V/1,5A TO220
S LM 338 K	17781	Voltage regulator adjustable 1,2-32V/5A TO3
S LM 350 T	18150	Voltage regulator adjustable 1,2-33V/3A TO220
S LM 723 CN	17903	Voltage regulator adjustable 2-37V/0,15A DIP14
S TS 317 CW RP	62396	Voltage regulator adjustable 1,2-37V SOT223

Voltage and Current References

Part No.	Ord. No.	Description
S LM 334 Z	17776	Current reference 0,01-10mA 8% TO92
S LM 336 Z-2,5	17778	Voltage reference 2,5V 4% 20ppm TO92
S LM 336 Z-5,0	40861	Voltage reference 5,0V 4% 20ppm TO92
S LM 385 Z-1,2	36111	Voltage reference 1,2V 2% 80ppm TO92
S LM 385 Z-2,5	36112	Voltage reference 2,5V 3% 80ppm TO92
S LT 1004 CZ-1.2	2119	Voltage reference 1,2V 2,4% 20ppm TO92
S REF 01 CPZ	2442	Voltage reference 10V 0,2% 8,5ppm DIP8
S REF 02 AP	2587	Voltage reference 5V 0,3% 8,5ppm DIP8
S TL 431 CD	27004	Voltage reference 2,495V, 3 2,2% 4ppm, SO8
S TL 431 CZ	18880	Voltage reference 2,495V, 34ppm, TO92
S TL 431 ILP	18881	Voltage reference adjustable 2.5V/10mA -40+85°C TO92

SOT - 223



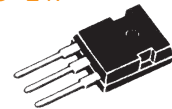
TO - 92



TO - 220



TO - 247



TO - 252 (DPAK)



TO - 263



DIP-14



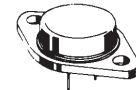
TO - 220



PENTAWATT



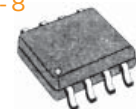
TO-3



TO - 92



SO - 8



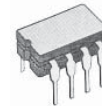
DIP - 8



Battery Charger ICs

Part No.	Ord. No.	Description
o ISL6292-2CR4Z-T	63442	IC for Li-Ion/Li-Pol charger QFN16
s MAX 1555 EZK+T	70895	Charging circuit USB for LiPo SOT23-5
s MAX 1811 ESA+	49460	USB-powered Li+ charger SO8
s MC 33340 PG	2534	NiCd/NiMH fast charger DIP8

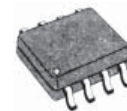
DIP-8



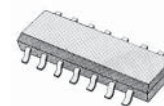
SO-8



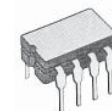
SO-8
MSOP-8



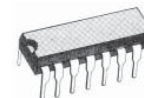
SO-14



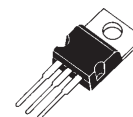
DIP-8



DIP-16



TO-220



TO-220-5



PWM Regulators

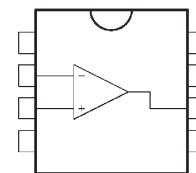
Part No.	Ord. No.	Description
o ICE 2A165	47857	PWM regulator +FET 650V DIP8
s ICL 7660 ACBA	47908	DC/DC converter 1,5-10V/100mA SO8
s ICL 7660 SCPA	22671	DC/DC converter 1,5-10V 100mA DIP8
s ICL 7662 CPA	2108	DC/DC converter non-inductive DIP8
s L 4960	20367	PWM regulator 2,5A vertical HEPTAWATT-7
s L 4962	20368	PWM regulator 1,5A DIP16
s L 4970 A	26861	PWM regulator 10A Multiwatt 15
s L5973D	53146	PWM regulator 2,5A Step Down HSOP8
s LM 2574 M-ADJ	56253	PWM regulator 1,23-37,0V 0,5A SO14
s LM 2574 N-5.0	3475	PWM regulator 5V/0,5A DIP8
s LM 2574 N-ADJ	7026	PWM regulator 1,23-37V/0,5A DIP8
s LM 2575 N-5	7028	PWM regulator 5V/1A DIP16
s LM 2575 N-ADJ	7027	PWM regulator 1,23-37V/1A DIP16
s LM 2575 T-5,0	4495	PWM regulator 5V/1A TO220
s LM 2575 T-ADJ	40596	PWM regulator AdjV/1A TO220
s LM 2576 HVT-ADJ NOPB	6590	PWM regulator 1,2-57V/2,5A TO220-5
s LM 2576 T-5	40597	PWM regulator 5V/3A TO220
s LM 2576 T-ADJG	40598	PWM regulator 1,23-37V/3A TO220
s LM 2576S-ADJ/NOPB	43176	PWM regulator AdjV/3A SMD TO220
o LT 1054 CN 8	29991	PWM regulator DIP8
o LT 1071 CT	29997	PWM regulator 2,5A TO220-5
o LT 1073 CS 8	29915	DC/DC converter SO8
s LT 1074 CT	30003	PWM regulator TO220-5
o LT 1074 HVCT7	48657	PWM regulator step-down TO220
o LT 1242 CN 8	30082	PWM regulator fast DIP8
o LTM 4600 HVEV	64240	10A 28VIN High Efficiency DC/DC µModule LGA104
o MAX 860 ISA+	49297	DC/DC converter Step-Up non-inductive SO8
o MAX 861 ISA	49298	DC/DC converter Step-Up non-inductive SO8
s MC 34063 ADG SMD	5956	PWM regulator 1,5A SO8
s MC 34063 AP (AP1G)	2061	PWM regulator 1,5A DIP8
s SG 3524 N	18905	PWM regulator 0,1A DIP16
s SG 3525 AN	21094	PWM regulator 0,4A DIP16
s TDA 4605	29402	PWM regulator 8-14V 100-200kHz DIP8
s TDA 4605-2	33398	PWM regulator 7,5-15,5V 20-40kHz DIP8
s TDA 4605-3	33575	PWM regulator 7,5-15,5V 20-40kHz DIP8
s TL 494 CN	18211	PWM regulator 7-40V/0,2A DIP16
o TNY 255 PN	49468	PWM regulator +FET 5W DIP8
o TOP 204 YAI	49982	PWM regulator +FET 50/100W TO220
o TOP 221 P	42433	PWM regulator +FET 9/6W DIP8
o TOP 222 Y	8256	PWM regulator +FET 25/15W TO220
o TOP 223 YN	43734	PWM regulator +FET 50/30W TO220
o TOP 224 YN	43784	PWM regulator +FET 75/45W TO220
o TOP 225 Y	42413	PWM regulator +FET 100/60W TO220
s TOP 242 PN	51633	PWM regulator +FET 9/15W DIP8
s TOP 243 PN	50439	PWM regulator +FET 2/45W DIP8
s TOP 244 PN	50583	PWM regulator +FET 30/65W DIP8
o TOP 244 YN	50438	PWM regulator +FET 30/65W TO220
o TOP 245 Y	49981	PWM regulator +FET 60/85W TO220
s TOP 246 YN	49482	PWM regulator +FET 90/125W TO220
o TOP 248 YN	49481	PWM regulator +FET 155/250W TO220
o TOP 249 YN	52658	PWM regulator +FET 120/250W TO220
s UC 3842 N	20623	PWM regulator 25V/1A DIP8
s UC 3843 AD SMD (BDG)	2854	PWM regulator 8-30V/1A SO14
s UC 3843 N	22346	PWM regulator 8-30V/1A DIP8
s UC 3844 D SMD	33257	PWM regulator max.30V/1A SO14
s UC 3844 N (AN)	22573	PWM regulator max.30V/1A DIP8
s UC 3845 ADG4	67604	PWM current regulator SO14
o VIPER 20	49180	PWM regulator +FET 0,5A/620V TO220-5

Standard Operational Amplifiers

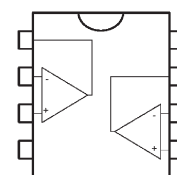
Part No.	Ord. No.	Description
o AD 8552 ARZ	64774	2x operational amplifier R-R SO8
s CA 3130 EZ	17733	OpAmp. fast Slew Rate DIP8
s CA 3140 E	17735	OpAmp. DIP8
s LF 353 N	17759	2xOpAmp. JFET DIP8
s LF 356 N	17761	OpAmp. JFET DIP8
s LF 411 CN	40595	OpAmp. JFET DIP8
s LF 412 CP	2397	2xOpAmp. BIFET DIP8
o LM 13700 N	3272	2xOpAmp. DIP16
s LM 258 D	37647	2xOpAmp., low power consumption SO8
s LM 258 N	19384	2xOpAmp., low power consumption DIP8
o LM 2902 N	17795	4xOpAmp. DIP14
o LM 2904 D	28894	2xOpAmp. low power consumption SO8
s LM 2904 N	17797	2xOpAmp. DIP8
o LM 301 AN	17764	OpAmp. DIP8
s LM 324 D	19559	4xOpAmp. SO14
s LM 324 N	17774	4xOpAmp. DIP14
s LM 348 N	17784	4xOpAmp. DIP14
s LM 358 D	19561	2xOpAmp. SO8
s LM 358 N	17785	2xOpAmp. DIP8
s MC 1458 D	19563	2xOpAmp. SO8
s MC 1458 P	17808	2xOpAmp. DIP8
s MC 4558 CD	22523	2xOpAmp. SO8
s NE 5532 AP	24352	2xOpAmp., bipolar, low noise DIP8
o NE 5532 D8	9445	2xOpAmp., bipolar, low noise SO8
s NE 5534 AP	17824	OpAmp. DIP8
s NJM 4580 D	9238	2xOpAmp., audio DIP8
s OP 07 CP	22685	OpAmp. DIP8
s TL 061 CD	22525	OpAmp. JFET SO8
s TL 061 CP	17891	OpAmp. JFET DIP8
s TL 062 CD	22526	2xOpAmp. JFET SO8
s TL 062 CP	17892	2xOpAmp. JFET DIP8
s TL 064 CN	17893	4xOpAmp. FET DIP14
s TL 071 CN	17894	OpAmp. JFET DIP8
s TL 072 CD	22529	2xOpAmp. JFET SO8
s TL 072 CN	17895	2xOpAmp. JFET DIP8
o TL 072 IN	40370	OpAmp. JFET DIP8
s TL 074 CD	22530	4xOpAmp. JFET SO14
s TL 074 CN	17896	4xOpAmp. JFET DIP14
s TL 081 CP	17897	OpAmp. JFET DIP8
s TL 082 CD	22532	2xOpAmp. JFET SO8
s TL 082 CP	17898	2xOpAmp. JFET DIP8
o TL 084 CD	19565	4xOpAmp. JFET SO14
s TL 084 CN	17899	4xOpAmp. JFET DIP14
s UA 741 CN	17905	OpAmp. DIP8



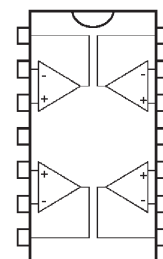
1xOA, DIP-8, SO-8



2xOA, DIP-8, SO-8



4xOA, DIP-14, SO-14



Precision Operational Amplifiers

Part No.	Ord. No.	Description
s INA 105 KP	2337	OpAmp. differential G=1 DIP8
s INA 118 U	4852	OpAmp. instrumentation precision SO8
s INA 126 P	3828	OpAmp. instrumentation precision DIP8
s LT 1115 CN8	30031	1xOpAmp. precision DIP8
o LT 1360 CN 8	37279	OpAmp. 50MHz 800V/us DIP8
o LT 1490 ACS8	55520	Dual/Quad OTT Micropower R-t-R OpAmp SO8
o LT 1491 ACN	48882	Dual/Quad Over-The-Top Micropower R-t-R OpAmp DIP14
s LTC 1050 CN 8	30116	1xOpAmp. precision DIP8
o LTC 1051 CN 8	30117	2xOpAmp. precision CMOS chopper-stabilized DIP8
o OP 07 CD	26995	OpAmp. precision SO8
s OPA 177 GP	2195	OpAmp. precision DIP8
s OPA 2134 PA	5066	2xOpAmp. precision audio DIP8



Precision Operational Amplifiers (continued)

Part No.	Ord. No.	Description
S INA 105 KP	2337	OA differential G=1 DIP8
S INA 118 U	4852	OA instrumentation precision SO8
S INA 126 P	3828	OA instrumentation precision DIP8
S LT 1115 CN8	30031	1xOA precision DIP8
O LT 1360 CN 8	37279	OA 50MHz 800V/us DIP8
O LT 1490 ACS8	55520	Dual/Quad OTT Micropower R-t-R OpAmp SO8
O LT 1491 ACN	48882	Dual/Quad Over-The-Top Micropower R-t-R OpAmp DIP14
S LTC 1050 CN 8	30116	1xOA precision DIP8
O LTC 1051 CN 8	30117	2xOA precision CMOS chopper-stabilized DIP8
O OP 07 CD	26995	OA precision SO8
S OPA 177 GP	2195	OA precision DIP8
S OPA 2134 PA	5066	2xOA precision audio DIP8
S OPA 2604 AP	2606	2xOA precision FET DIP8
S OPA 27 GP	2197	OA precision DIP8
O TLC 271 CD	54608	OA precision SO8
S TLC 271 CP	20618	OA precision CMOS DIP8
S TLC 272 CD	23881	2xOA precision SO8
S TLC 272 CP	20619	2xOA precision CMOS DIP8
S TLC 274 CN	20620	4xOA precision CMOS DIP14
O TLC 274 CD	23882	OA precision SMD SO14

Comparators

Part No.	Ord. No.	Description
S LM 2903 N	17796	2xcomparator LP 1500ns DIP8
S LM 293 N	20583	2xcomparator LP CMOS 1300ns DIP8
S LM 311 D SMD	22520	Comparator 200ns SO8
S LM 311 N	17768	Comparator 200ns DIP8
S LM 319 N	17772	2xcomparator 80ns DIP14
S LM 339 D	19560	4xcomparator LP 1300ns SO14
S LM 339 N	17782	4xcomparator LP 1300ns DIP14
S LM 393 D SMD	19562	2xcomparator LP 1300ns SO8
S LM 393 N	17792	2xcomparator LP 1300ns DIP8

Timers

Part No.	Ord. No.	Description
S 555IDSMD	3737	Timer CMOS SO8
S 555N	17814	Timer NMOS DIP8
S 556N	17815	2xTimer NMOS DIP14
S 555=ICM7555	18202	Timer CMOS DIP8
S 555D	19564	Timer NMOS SO8
S 556CN	20579	2xTimer CMOS DIP14
S 555CD	27011	Timer CMOS SO8

	NMOS (0°C to +70°C)	NMOS (-40°C to +85°C)	NMOS (-55°C to +125°C)	CMOS
Philips	NE 555	SA 555	SE 555	ICM7555
ST Microelectronics	NE 555	SA 555		TS 555
National Semiconductor	LM 555			LMC 555
Texas Instruments	NE 555	SA 555	SE 555	TLC 555
Intersil (Harris)	CA 0555			ICM 7555





- voltage regulators and references •precision operational amplifiers •charging controllers
- AD/DA converters •interfaces •RF circuits for special applications

Linear Technology ICs Overview

Part No.	Description	Package
LT1004CZ-1.2	Voltage Reference 1,2V, 2.4% 20ppm TO92	TO 92
LT1004CS8-2.5	Micropower Voltage Reference 2,5V SO8	SO 8
LT1007CS8	Low Noise, High Speed Precision Operational Amplifiers SO8	SO 8
LT1009IS8	2.5V Reference SO8	SO 8
LT1010CN8	Fast ±150mA Power Buffer PDIP8	PDIP 8
LT1011ACN8	Voltage Comparator PDIP8	PDIP 8
LT1012S8	Picoamp Input Current, Microvolt Offset, Low Noise Op Amp SO8	SO 8
LT1012S8	Picoamp Input Current, Microvolt Offset, Low Noise Op Amp SO8	SO 8
LT1014ISW	Quad Precision Op Amp (LT1014) Dual Precision Op Amp (LT1013) SO16	SO 16
LT1016CS8	Ultra Fast Precision 10ns Comparator SO8	SO 8
LT1017CS8	Micropower Dual Comparator SO8	SO 8
LT1018CS8	Micropower Dual Comparator SO8	SO 8
LT1019ACS8-2.5	Precision Reference SO8	SO 8
LT1039CSW	RS232 Driver/Receiver with Shutdown SO18	SOL 18
LT1054CN8	Switched-Capacitor Voltage Converter with Regulator DIP8	DIP 8
LT1057ACN8	Dual and Quad, JFET Input Precision High Speed Op Amps PDIP8	PDIP 8
LT1058SW	Dual and Quad, JFET Input Precision High Speed Op Amps SO16	SOL 16
LT1070HVCT	5A and 2.5A High Efficiency Switching Regulators TO-220 5	TO 220-5
LT1071CT	2.5A High Efficiency Switching Regulator TO-220 5	TO 220-5
LT1072CS8	1.25A High Efficiency Switching Regulator SO8	SO 8
LT1073CS8	Micropower DC-DC converter fixed 5V SO8	SO 8
LT1074CT	Step-Down Switching Regulator TO-220 5	TO 220-5
LT1074HVCT7	Step-Down Switching Regulator TO-220	TO 220
LT1076CQ	Step-Down Switching Regulator DD PAK5	DD 5
LT1076HVCT7	Step-Down Switching Regulator TO-220 7	TO 220-7
LT1077S8	Micropower, Single Supply, Precision Op Amp SO8	SO 8
LT1078IN8	Micropower, Dual and Quad, Single Supply, Precision Op Amps PDIP8	PDIP 8
LT1078S8	Micropower, Dual and Quad, Single Supply, Precision Op Amps SO8	SO 8
LT1079IN	Micropower, Dual and Quad, Single Supply, Precision Op Amps PDIP14	PDIP 14
LT1080CSW	Advanced Low Power 5V RS232 Dual Driver/Receiver SO18	SOL 18
LT1081CSW	Advanced Low Power 5V RS232 Dual Driver/Receiver SO16	SOL 16
LT1083CP-12	7.5A, 5A, 3A Low Dropout Positive Adjustable Regulators TO-3P 3	TO 3P
LT1084CT-3.3	7.5A, 5A, 3A Low Dropout Positive Adjustable Regulators TO-220 3	TO 220
LT1085CT-3.3	7.5A, 5A, 3A Low Dropout Positive Adjustable Regulators TO-220 3	TO 220-3
LT1086CM	1.5A Low Dropout Positive Regulators Adjustable and Fixed 2.85V, 3.3V, 3.6V, 5V, 12V DD PAK3	DD 3
LT1097S8	Low Cost, Low Power Precision Op Amp SO8	SO 8
LT1101AIN8	Precision, Micropower, Single Supply Instrumentation Amplifier (Fixed Gain = 10 or 100) PDIP8	PDIP 8
LT1107CS8	Micropower DC/DC Converter Adjustable and Fixed 5V, 12V SO8	SO 8
LT1109CZ-12	Micropower Low Cost DC/DC Converter Adjustable and Fixed 5V, 12V TO-92 3	TO 92
LT1111CS8	Micropower DC/DC Converter Adjustable and Fixed 5V, 12V SO8	SO 8
LT1114S	Dual/Quad Low Power Precision, Picoamp Input Op Amps SO16	SO 16
LT1115CN8	Ultralow Noise, Low Distortion, Audio Op Amp	DIP 8
LT1117CST-2.85	800mA Low Dropout Positive Regulators Adjustable and Fixed 2.85V, 3.3V, 5V SOT3	SOT 223
LT1118CST-2.5	Low IQ, Low Dropout, 800mA, Source and Sink Regulators Adjustable and Fixed 2.5V, 2.85V, 5V SOT3	SOT 223
LT1120CS8	Micropower Regulator with Comparator and Shutdown SO8	SO 8
LT1121CS8-3.3	Micropower Low Dropout Regulators with Shutdown SO8	SO 8
LT1121IS8-3.3	Micropower Low Dropout Regulators with Shutdown SO8	SO 8
LT1121IST-5	Micropower Low Dropout Regulators with Shutdown SOT3	SOT 223
LT1122DS8	Fast Settling, JFET Input Operational Amplifier SO8	SO 8
LT1122DS8	Fast Settling, JFET Input Operational Amplifier SO8	SO 8
LT1129CS8-3.3	700mA Micropower Low Dropout Regulator with Shutdown SO8	SO 8
LT1131ACSW	Advanced Low Power 5V RS232 Drivers/Receivers with Small Capacitors (Includes LT1130 thru LT1141) SO28	SOT 223
LT1158ISW	Half Bridge N-Channel Power MOSFET Driver SO16	PDIP 16
LT1158ISW	Half Bridge N-Channel Power MOSFET Driver SO16	PDIP 16
LT1161CSW	Quad Protected High-Side MOSFET Driver SO20	PDIP 20
LT1161CSW	Quad Protected High-Side MOSFET Driver SO20	PDIP 20
LT1161ISW	Quad Protected High-Side MOSFET Driver SO20	SOL 20
LT1167CS8	Single Resistor Gain Programmable, Precision Instrumentation Amplifier SO8	PDIP 8

Part No.	Description	Package
LT1168CS8	Low Power, Single Resistor Gain Programmable, Precision Instrumentation Amplifier SO8	SO 8
LT1170CQ	100kHz, 5A, 2.5A and 1.25A High Efficiency Switching Regulators DD PAK5	SO 8
LT1173CS8	Micropower DC/DC Converter Adjustable and Fixed 5V, 12V SO8	PDIP 8
LT1175CQ-5	500mA Negative Low Dropout Micropower Regulator DD-PAK5	SO 8
LT1176CN8	Step-Down Switching Regulator PDIP8	SO 8
LT1176CSW-5	Step-Down Switching Regulator SO20	PDIP 8
LT1180ACSW	Low Power 5V RS232 Dual Driver/Receiver with 0.1µF Capacitors SO18	PDIP 14
LT1182CS	CCFL/LCD Contrast Switching Regulators SO16	SOL 16
LT1182CS	CCFL/LCD Contrast Switching Regulators SO16	SOL 16
LT1184FCS	CCFL/LCD Contrast Switching Regulators SO16	SO 16
LT1193CS8	Video Difference Amplifier SO8	PDIP 8
LT1206CN8	250mA/60MHz Current Feedback Amplifier PDIP8	SO 8
LT1214CS	28MHz, 12V/µs, Single Supply Dual and Quad Precision Op Amps SO16	SO 8
LT1236ACS8-10	Precision Reference SO8	SO 8
LT1242CN8	High Speed Current Mode Pulse Width Modulator	DIP 8
LT1248IN	Power Factor Controller PDIP16	PDIP 16
LT1280ACSW	Low Power 5V RS232 Dual Driver/Receiver with 0.1µF Capacitors SO18	TO 220-5
LT1281ACSW	Low Power 5V RS232 Dual Driver/Receiver with 0.1µF Capacitors SO16	PDIP 16
LT1307IS8	Single Cell Micropower 600kHz PWM DC/DC Converters SO8	SO 8
LT1308BCS8	Single Cell High Current Micropower 600kHz Boost DC/DC Converter SO8	SO 8
LT1339CSW	High Power Synchronous DC/DC Controller SO20	PDIP 20
LT1353CS	Dual and Quad 250µA, 3MHz, 200V/µs Operational Amplifier SO14	SOL 20
LT1354CS8	12MHz, 400V/µs Op Amp SO8	SO 14
LT1355CS8	Dual and Quad 12MHz, 400V/µs Op Amps SO8	PDIP 8
LT1359CS	Dual and Quad 25MHz, 600V/µs Op Amps SO16	SO 8
LT1360CN8	50MHz, 800V/µs Op Amp	DIP 8
LT1361CS8	Dual and Quad 50MHz, 800V/µs Op Amps SO8	SO 8
LT1366CN8	Dual and Quad Precision Rail-to-Rail Input and Output Op Amps PDIP8	PDIP 8
LT1367CS	Dual and Quad Precision Rail-to-Rail Input and Output Op Amps SO14	SO 8
LT1368CS8	Dual and Quad Precision Rail-to-Rail Input and Output Op Amps SO8	SO 14
LT1371CR	500kHz High Efficiency 3A Switching Regulator DD PAK7	DD 7
LT1372CS8	500kHz and 1MHz High Efficiency 1.5A Switching Regulators SO8	DD 7
LT1372HVCS8	500kHz and 1MHz High Efficiency 1.5A Switching Regulators SO8	SO 8
LT1373CS8	250kHz Low Supply Current High Efficiency 1.5A Switching Regulator SO8	SO 8
LT1374CS8	4.5A, 500kHz Step-Down Switching Regulator SO8	DD PAK 7
LT1375HVCS8	1.5A, 500kHz Step-Down Switching Regulators SO8	SO 8
LT1376HVCS8	1.5A, 500kHz Step-Down Switching Regulators SO16	SO 8
LT1377CS8	500kHz and 1MHz High Efficiency 1.5A Switching Regulators SO8	SO 8
LT1399CS	Low Cost Dual and Triple 300MHz Current Feedback Amplifiers with Shutdown SO16	SO 8
LT1413S8	Single Supply, Dual Precision Op Amp SO8	PDIP 8
LT1424IS8-5	Isolated Flyback Switching Regulator with 5V Output SO8	SO 8
LT1460BIS8-5	Micropower Precision Series Reference SO8	SO 8
LT1461ACS8-2.5	Micropower Precision Low Dropout Series Voltage Reference Family SO8	SOT 23
LT1490ACS8	Dual/Quad OTT Micropower R-t-R Operational Amplifier SO8	SO 8
LT1491ACN	Dual/Quad OTT Micropower R-t-R Operational Amplifier DIP14	DIP14
LT1492CS8	5MHz, 3V/µs, Low Power Single Supply, Dual and Quad Precision Op Amps SO8	SO 14
LT1498CS8	10MHz, 6V/µs, Dual/Quad Rail-to-Rail Input and Output Precision C-Load Op Amps SO8	SO 8
LT1499CS	10MHz, 6V/µs, Dual/Quad Rail-to-Rail Input and Output Precision C-Load Op Amps SO8	SO 8
LT1505CG	Constant-Current/Voltage High Efficiency Battery Charger SSOP28	SO 14
LT1506CS8	4.5A, 500kHz Step-Down Switching Regulator SO8	SSOP 28
LT1509CSW	Power Factor and PWM Controller SO20	SO 8
LT1510CN	Constant-Voltage/Constant-Current Battery Charger PDIP16	SOL 20
LT1511CSW	Constant-Current/ Constant-Voltage 3A Battery Charger with Input Current Limiting SO24	SO 8
LT1513-2CT7	SEPIC Constant- or Programmable-Current/Constant-Voltage Battery Charger TO-220 7	SOL 24
LT1521CS8	300mA Low Dropout Regulators with Micropower Quiescent Current and Shutdown SO8	DD 7
LT1529CQ	3A Low Dropout Regulators with Micropower Quiescent Current and Shutdown DD PAK5	DD 5
LT1580CQ	7A, Very Low Dropout Regulator DD PAK5	SO 16
LT1584CT	7A, 4.6A, 3A Low Dropout Fast Response Positive Regulators Adjustable and Fixed TO-220 3	DD 5
LT1613CS5	1.4MHz, Single Cell DC/DC Converter in 5-Lead SOT-23 SOT5	TO 220-3
LT1615ES5-1	Micropower Step-Up DC/DC Converters in ThinSOT SOT5	SOT 23-5
LT1617ES5-1	Micropower Inverting DC/DC Converters in SOT-23 SOT5	SOT 23
LT1618EMS	Constant-Current/Constant-Voltage 1.4MHz Step-Up DC/DC Converter MSOP10	SOT 23
LT1619EMS8	Low Voltage Current Mode PWM Controller MSOP8	MSOP 10
LT1634ACS8-1.25	Micropower Precision Shunt Voltage Reference SO8	SO 8
LT1637IS8	1.1MHz, 0.4V/µs Over-The-Top Micropower, Rail-To-Rail Input and Output Op Amp SO8	SO 8
LT1638CMS8	1.2MHz, 0.4V/µs Over-The-Top Micropower Rail-to-Rail Input and Output Op Amps MSOP8	SO 8
LT1676IS8	Wide Input Range, High Efficiency, Step-Down Switching Regulator SO8	SO 8

Part No.	Description	Package
LT1711CMS8	Single/Dual 4.5ns, 3V/5V/±5V, Rail-to-Rail Comparators MSOP8	SOL 16
LT1715CMS	4ns, 150MHz Dual Comparator with Independent Input/Output Supplies MSOP10	MSOP 8
LT1719CS8	4.5ns Single/Dual Supply 3V/5V Comparator with Rail-to-Rail Output SO8	MSOP 10
LT1720CMS8	Dual/Quad, 4.5ns, Single Supply 3V/5V Comparators with Rail-to-Rail Outputs MSOP8	SO 8
LT1761ES5-1.8	100mA, Low Noise, LDO Micropower Regulators in SOT-23 SOT5	SO 8
LT1762EMS8	150mA, Low Noise, LDO Micropower Regulators MSOP8	SOT 23-5
LT1763CS8	500mA, Low Noise, LDO Micropower Regulators SO8	MSOP 8
LT1764EQ	3A, Fast Transient Response, Low Noise, LDO Regulators DD PAK5	DD 5
LT1765EFE-5	Monolithic 3A, 1.25MHz Step-Down Switching Regulators TSSOP16	TSSOP 16
LT1766IFE	High Voltage 1.5A, 200kHz Step-Down Switching Regulators TSSOP16	TSSOP 16
LT1767EMS8	Monolithic 1.5A, 1.25MHz Step-Down Switching Regulators MSOP8	TSSOP 16
LT1776CS8	Wide Input Range, High Efficiency, Step-Down Switching Regulator SO8	MSOP 8
LT1777CS	Low Noise Step-Down Switching Regulator SO16	SO 8
LT1782IS5	Micropower, Over-The-Top, Rail-to-Rail Input and Output Op Amp SOT23-5	SO 16
LT1785AIS8	60V Fault Protected RS485/RS422 Transceivers SO8	SOT 23-5
LT1789CS8-1	Micropower, Single Supply Rail-to-Rail Output Instrumentation Amplifier SO8	SO 8
LT1790ACS6-2.5	Micropower Low Dropout Reference Family SOT23-6	SO 8
LT1791CS	60V Fault Protected RS485/RS422 Transceivers SO14	SOT 23-6
LT1800IS5	80MHz, 25V/μs Low Power Rail-to-Rail Input and Output Precision Op Amp SOT5	SO 14
LT1806CS8	325MHz, Single/Dual, Rail-to-Rail Input and Output, Low Distortion, Low Noise Precision Op Amps SO8	SOT 23
LT1813IS8	Dual/Quad 3mA, 100MHz, 750V/μs Operational Amplifier SO8	MSOP 8
LT1881CS8	Dual Rail-to-Rail Output, Picoamp Input Precision Op Amps SO8	SOT 23
LT1931AES5	1.2MHz/2.2MHz Inverting DC/DC Converters in TSOT23-5	SOT 23-5
LT1936EMS8E	1.4A, 500kHz Step-Down Switching Regulator MSOP8	SOT 23
LT1940EFE	Dual Monolithic 1.4A, 1.1MHz Step-Down Switching Regulator TSSOP16	MSOP 8
LT1941EFE	Triple Monolithic Switching Regulator TSSOP28	TSSOP 16
LT1945EMS	Dual Micropower DC/DC Converter with Positive and Negative Outputs MSOP10	TSSOP 28
LT1956IFE	High Voltage, 1.5A, 500kHz Step-Down Switching Regulators TSSOP16	TSSOP 16
LT1962EMS8	300mA, Low Noise, Micropower LDO Regulators MSOP8	MSOP 8
LT1963AEQ-3.3	1.5A, Low Noise, Fast Transient Response LDO Regulators DD PAK5	DD 5
LT1964ES5-5	200mA, Low Noise, Low Dropout Negative Micropower Regulator in ThinSOT SOT5	SOT 223
LT1964ES5-SD	200mA, Low Noise, Low Dropout Negative Micropower Regulator in ThinSOT SOT5	SOT 23-5
LT1976EFE	High Voltage 1.5A, 200kHz Step-Down Switching Regulator with 100μA Quiescent Current TSSOP16	TSSOP 20
LT2078CS8	Micropower, Dual and Quad, Single Supply, Precision Op Amps SO8	TSSOP 16
LT3010EMS8E	50mA, 3V to 80V Low Dropout Micropower Regulator MSOP8	SO 8
LT3010EMS8E-5	50mA, 3V to 80V Low Dropout Micropower Regulator MSOP8	MSOP 8
LT3430EFE	High Voltage, 3A, 200kHz Step-Down Switching Regulator TSSOP16	SOT 23-5
LT3436EFE	3A, 800kHz Step-Up Switching Regulator TSSOP16	TSSOP 16
LT3439EFE	Slew Rate Controlled Ultralow Noise 1A Isolated DC/DC Transformer Driver TSSOP16	TSSOP 16
LT3467ES6	1.1A Step-Up DC/DC Converter with Integrated Soft-Start SOT6	TSSOP 16
LT3470ETS8	Micropower Buck Regulator with Integrated Boost and Catch Diodes SOT8	Thin SOT 6
LT3474EFE	Step-Down 1A LED Driver TSSOP16	SOT 23
LT3477EFE	3A, DC/DC Converter with Dual Rail-to-Rail Current Sense TSSOP20	TSSOP 16
LT3481EMSE	36V, 2A, 2.8MHz Step-Down Switching Regulator with 50μA Quiescent Current MSOP10	TSSOP 20
LT3508EFE	Dual Monolithic 1.4A Step-Down Switching Regulator TSSOP16	MSOP 10
LT5534ESC6	50MHz to 3GHz RF Power Detector with 60dB Dynamic Range SC70 6	TSSOP 16
LT6203CS8	Single/Dual/Quad 100MHz, Rail-to-Rail Input and Output, Ultralow 1.9nVrtHz Noise, Low Power Op Amps	SC 70
LT6700CS6	Micropower, Low Voltage, Dual Comparator with 400mV Reference SOT6	SO 8
LTC1050 CN8	Precision Zero-Drift Operational Amplifier with Internal Capacitors	DIP 8
LTC1051CSW	Dual/Quad Precision Zero-Drift Operational Amplifiers With Internal Capacitors SO16	PDIP 8
LTC1051 CN8	Dual/Quad Precision Zero-Drift Operational Amplifiers With Internal Capacitors	DIP 8
LTC1059CS	High Performance Switched Capacitor Universal Filter SO14	SOL 18
LTC1060CSW	Universal Dual Filter Building Block SO20	PDIP 20
LTC1062CSW	5th Order Lowpass Filter SO16	PDIP 8
LTC1063CSW	DC Accurate, Clock-Tunable 5th Order Butterworth Lowpass Filter SO16	PDIP 8
LTC1068-200CG	Clock-Tunable, Quad Second Order, Filter Building Blocks SSOP28	SOL 16
LTC1068CN	Clock-Tunable, Quad Second Order, Filter Building Blocks PDIP24	SSOP 28
LTC1093CSW	1, 2, 6 and 8 Channel, 10-Bit Serial I/O Data Acquisition Systems SO16	PDIP 16
LTC1144IS8	Switched-Capacitor Wide Input Range Voltage Converter with Shutdown SO8	SO 8
LTC1148CS	High Efficiency Synchronous Step-Down Switching Regulators SO14	SO 8
LTC1149CS	High Efficiency Synchronous Step-Down Switching Regulators SO16	PDIP 16
LTC1150CS8	±15V Zero-Drift Operational Amplifier with Internal Capacitors SO8	PDIP 8
LTC1159CS	High Efficiency Synchronous Step-Down Switching Regulators SO16	SO 8
LTC1159IS	High Efficiency Synchronous Step-Down Switching Regulators SO16	SO 16
LTC1174HVCN8-5	High Efficiency Step-Down and Inverting DC/DC Converter PDIP8	SO 16
LTC1257IS8	Complete Single Supply 12-Bit Voltage Output DAC in SO-8	SO 8
LTC1263CS8	12V, 60mA Flash Memory Programming Supply SO8	SO 8

Part No.	Description	Package
LTC1263CS8	12V, 60mA Flash Memory Programming Supply SO8	SO 8
LTC1272-8CCSW	12-Bit, 3µs, 250kHz Sampling A/D Converter SO24	SO 8
LTC1279CSW	12-Bit, 600ksps Sampling A/D Converter with Shutdown SO24	SOL 24
LTC1285CS8	3V Micropower Sampling 12-Bit A/D Converters in SO-8 Packages	SOL 24
LTC1286CS8	Micropower Sampling 12-Bit A/D Converters In SO-8 Packages	PDIP 8
LTC1286IS8	Micropower Sampling 12-Bit A/D Converters In SO-8 Packages	SO 8
LTC1292DCN8	Single Chip 12-Bit Data Acquisition Systems PDIP8	PDIP 8
LTC1296DCSW	Single Chip 12-Bit Data Acquisition System SO20	PDIP 20
LTC1298CS8	Micropower Sampling 12-Bit A/D Converters In SO-8 Packages	PDIP 8
LTC1298IS8	Micropower Sampling 12-Bit A/D Converters In SO-8 Packages	SO 8
LTC1321CSW	RS232/EIA562/RS485 Transceivers SO24	SO 8
LTC1325CSW	Microprocessor-Controlled Battery Management System SO18	SO 24
LTC1326CMS8	Micropower Precision Triple Supply Monitor MSOP8	SOL 18
LTC1334CNW	Single 5V RS232/RS485 Multiprotocol Transceiver PDIP28	SO 8
LTC1337CSW	5V Low Power RS232 3-Driver/5-Receiver Transceiver SO28	SO 28
LTC1383CN	5V Low Power RS232 Transceiver PDIP16	SSOP 44
LTC1386CS	3.3V Low Power EIA/TIA562 Transceiver SO16	SO 16
LTC1387CG	Single 5V RS232/RS485 Multiprotocol Transceiver SSOP20	SO 16
LTC1390CS	8-Channel Analog Multiplexer with Serial Interface SO16	SOL 20
LTC1400CS8	Complete SO-8, 12-Bit, 400ksps ADC with Shutdown SO8	SO 16
LTC1400IS8	Complete SO-8, 12-Bit, 400ksps ADC with Shutdown SO8	SO 8
LTC1402IGN	Serial 12-Bit, 2.2Mps Sampling ADC with Shutdown SSOP16	SO 8
LTC1407ACMSE	Serial 14-Bit, 3Mps Simultaneous Sampling ADCs with Shutdown MSOP10	MSOP 10
LTC1414CGN	14-Bit, 2.2 Mps, Sampling A/D Converter SSOP28	MSOP 10
LTC1416IG	Low Power 14-Bit, 400ksps Sampling ADC SSOP28	SSOP 28
LTC1418ACN	Low Power, 14-Bit, 200ksps ADC with Serial and Parallel I/O PDIP28	SSOP 28
LTC1422CS8	Hot Swap Controller SO8	PDIP 28
LTC1435ACS	High Efficiency Low Noise Synchronous Step-Down Switching Regulator SO16	SO 8
LTC1445CS	Ultralow Power Quad Comparators with Reference SO16	SO 8
LTC1446IS8	Dual 12-Bit Rail-to-Rail Micropower DACs in SO-8	SO 8
LTC1446LCS8	Dual 12-Bit Rail-to-Rail Micropower DACs in SO-8	SO 8
LTC1451CS8	12-Bit Rail-to-Rail Micropower DACs in SO-8	PDIP 8
LTC1452CS8	12-Bit Rail-to-Rail Micropower DACs in SO-8	SO 8
LTC1452IS8	12-Bit Rail-to-Rail Micropower DACs in SO-8	SO 8
LTC1454CN	Dual 12-Bit Rail-to-Rail Micropower DACs PDIP16	SO 8
LTC1458CG	Quad 12-Bit Rail-to-Rail Micropower DACs SSOP28	SO 16
LTC1472CS	Protected PCMCIA VCC and VPP Switching Matrix SO16	SOL 28
LTC1474IS8	Low Quiescent Current High Efficiency Step-Down Converters SO8	SO 16
LTC1485IS8	Differential Bus Transceiver SO8	SO 8
LTC1535CSW	Isolated RS485 Transceiver SO28	SO 8
LTC1540CMS8	Nanopower Comparator with Reference MSOP8	SO 28
LTC1544IG	Software-Selectable Multiprotocol Transceiver SSOP28	MSOP 8
LTC1560-1CS8	1MHz/500kHz Continuous Time Low Noise, Lowpass Elliptic Filter SO8	SO 24
LTC1562IG	Very Low Noise, Low Distortion Active RC Quad Universal Filter SSOP20	SSOP 20
LTC1563-2CGN	Active RC, 4th Order Lowpass Filter Family SSOP16	SSOP 20
LTC1563-3CGN	Active RC, 4th Order Lowpass Filter Family SSOP16	SSOP 16
LTC1590CS	Dual Serial 12-Bit Multiplying DAC So16	SO 8
LTC1594CS	4-Channel, Micropower Sampling 12-Bit Serial I/O A/D Converter SO16	SOL 16
LTC1595BCS8	Serial 16-Bit Multiplying DACs SO8	SO 16
LTC1605CSW	16-Bit, 100ksps, Sampling ADC SO28	SSOP 28
LTC1609CSW	16-Bit, 200ksps, Serial Sampling ADC SO20	SOL 28
LTC1622IS8	Low Input Voltage Current Mode Step-Down DC/DC Controller SO8	SO 20
LTC1624CS8	High Efficiency SO-8 N-Channel Switching Regulator Controller SO8	SO 8
LTC1625CGN	No RSENSE Current Mode Synchronous Step-Down Switching Regulator SSOP16	SO 8
LTC1627CS8	Monolithic Synchronous Step-Down Switching Regulator SO8	SO 16
LTC1628CG	High Efficiency, 2-Phase Synchronous Step-Down Switching Regulator SSOP28	SO 8
LTC1655CS8	16-Bit Rail-to-Rail Micropower DACs in SO-8 Package SO8	SO 16
LTC1660CGN	Micropower Octal 8-Bit and 10-Bit DACs SSOP16	SO 8
LTC1664CGN	Micropower Quad 10-Bit DAC SSOP16	MSOP 8
LTC1665IGN	Micropower Octal 8-Bit and 10-Bit DACs SSOP16	SSOP 16
LTC1453IS8	12-Bit Rail-to-Rail Micropower DACs in SO-8	SO 8
LTC1450CN	Parallel Input, 12-Bit Rail-to-Rail Micropower DACs in PDIP24	SSOP 24
LT1963EQ-3.3	1.5A, Low Noise, Fast Transient Response LDO Regulators DD PAK5	DD 5
LT1963EQ-2.5	1.5A, Low Noise, Fast Transient Response LDO Regulators DD PAK5	DD 5
LT1963EQ	1.5A, Low Noise, Fast Transient Response LDO Regulators DD PAK5	SOT 223
LT1963AEST-3.3	1.5A, Low Noise, Fast Transient Response LDO Regulators SOT3	SOT 223
LT1963AEST-1.8	1.5A, Low Noise, Fast Transient Response LDO Regulators SOT3	DD 5

Power Audio ICs

Part No.	Ord. No.	Description
S BA 5406	19205	IC Audio power amplifier 2x5W/18V SILP12
S LM 386	17789	IC Audio power amplifier 4-12V DIP8
O LM 2876 T	2767	IC Audio power amplifier 75W SQL11
O LM 3875 T	5891	IC Audio power amplifier 56W/±20V/8Ohm
S LM 3876 T/NOPB	2768	IC Audio power amplifier 40W/±35V SQL11
S LM 3886 T/NOPB	2769	IC Audio power amplifier 75W/±35V SQL11
S LM 3886 TF/NOPB	8666	IC Audio power amplifier 75W/±35V SQL11 izol
S STK 4152 II	22051	IC Audio power amplifier 2x30W/27V HYB64x36
O TA 7270 P	20688	IC Audio power amplifier 2x5,8W/13V SQL12
S TA 8207 K	29307	IC Audio power amplifier 2x4,6W/12V SIL12
S TA 8210 AH	28442	IC Audio power amplifier 2x19W/25V QILP17
O TA 8216 H	29300	IC Audio power amplifier for TV NF 2x12W SQL12
S TBA 810 S	17846	IC Audio power amplifier 5,5W/14V QIP12
S TDA 1013 B	24362	IC Audio power amplifier 4,2W/18V SIL9
S TDA 1516 Q (BQ)	26835	IC Audio power amplifier 2x11W QILP13
S TDA 1517/N3	24365	IC Audio power amplifier 2x6W SIL9
S TDA 1554 Q	27769	IC Audio power amplifier 4x11W/14,4V QILP17
S TDA 1557 Q	40285	IC Audio power amplifier 2x22W/14,4V QILP13
S TDA 1558 Q	5566	IC Audio power amplifier 4x11W/14,4V QILP17
S TDA 1562 Q	6138	IC Audio power amplifier 70W DBS-17P
S TDA 2003 V	17873	IC Audio power amplifier 10W/14V TO220/5V
S TDA 2004	17874	IC Audio power amplifier 2x6W/14V SQL11
S TDA 2005 M	24390	IC Audio power amplifier 2x10W/14V SQL11
S TDA 2005 S	17875	IC Audio power amplifier 2x10W/14V SQL11
S TDA 2030 AV	21988	IC Audio power amplifier 18W±14V TO220/5V
O TDA 2030 V	17878	IC Audio power amplifier 14W/±14V TO220/5V
S TDA 2040 V	17879	IC Audio power amplifier 22W/±16V TO220/5
S TDA 2050 V	30348	IC Audio power amplifier 32W/±22V TO220/5
S TDA 2052 V	3189	IC Audio power amplifier 65W/±25V/4Ohm TO220/7
S TDA 2616	6282	IC Audio power amplifier hifi 2x12W/±16V SIL9
S TDA 2822	20598	IC Audio power amplifier 2x1,7W/9V DIP16
S TDA 2822 M	24801	IC Audio power amplifier 2x0,65W/6V DIP8
S TDA 7052	27764	IC Audio power amplifier 1W mono DIP8
O TDA 7056 A	29585	IC Audio power amplifier 3W SOT110-1
S TDA 7250	20613	IC Audio power amplifier 2x50W/±35V DIP20
S TDA 7265	6703	IC Audio power amplifier 2x25W Multiwatt11
O TDA 7269 A	47131	IC Audio power amplifier 2x14W
O TDA 7293 V	9123	IC Audio power amplifier DMOS 100W
S TDA 7294 V	37668	IC Audio power amplifier 100W/±40V SQL15
S TDA 7375 V	40696	IC Audio power amplifier 2x25W/18V
S TDA 7386	5338	IC Audio power amplifier 4 x 40W Flexiwatt25
S TDA 8541 T/N1	59581	IC Audio power amplifier BTL 1W
S TDA 8560 Q	40238	IC Audio power amplifier 2x40W/14V QILP13
S TDA 8561 Q	10121	IC Audio power amplifier 2x24W/14V QILP17
S TDA 8571 J	51275	IC Audio power amplifier 4x40W BTL SIP23
S TEA 2025 B	3128	IC Audio power amplifier 2x2,3W/9V DIP16
O TPA 3120D2 PWP	62491	IC Audio power amplifier class D 2x25W/27V TSSOP24

Other Audio ICs

Part No.	Ord. No.	Description
S LM 1036 N	3281	Dual DC Operated Tone/Volume/Balance Circuit DIP20
S TDA 1524 A	20593	Stereo-tone/volume control circuit DIP18





Video ICs

Part No.	Ord. No.	Description
O LA 7830	21763	Color TV Vertical Deflection Output Circuit SIL7
S STK 7348	28448	CTV switching regulator +115V HYB44x25
S TDA 1675 A	17868	CTV vertical deflection circuit SQL15
S TDA 3653 B	6857	TV ertical deflection and guard circuit 90° SIL9MPF
S TDA 3654	20607	TV vert.sync. 110° SILP9
S TDA 4950	19874	TV East/West correction circuit DIP8
S TDA 8145	19397	TV East/West correction circuit DIP8
S TDA 8170	19398	CTV, vertical deflection output circuit TO220/7
S TDA 8172	19399	CTV, vertical deflection output circuit TO220/7
S TDA 8350 Q	40283	CTV, vertical deflect. and East-West output circuit QILP13
S TDA 8356	7567	DC-coupled vertical deflection circuit SIL9P
S TEA 5101 B	22539	TV-RGB output circuit 15PQ

Generators and Audio Recorders

Part No.	Ord. No.	Description
S ISD 1620 BSY	55178	Audio recorder 13-40 sec. SO16
O ISD 4002-120P	56968	Audio recorder 120sec. DIP28
O ISD 4004-08MP	48426	Audio recorder 8 min. DIP28
S VS 1053 B-L	71061	MP3, Ogg Vorbis Decoder LQFP48
S LS 1240 A	37664	Electronic Two-Tone Ringer DIP8
S SAE 800	33565	Eelectronic-gong DIP8
S XR 2206 CP	19405	VCO/PLL/synthesiser DIP16



LED and LCD Drivers

Part No.	Ord. No.	Description
O AY 0438-I/P	53190	Driver LCD display 32 segm. -40--85°C DIP40
S LM 3914 N-1	17803	Driver LED LIN DIP18
S LM 3915 N-1	17804	Driver LED LOG DIP18
S M 5450 B7	2179	Driver 7-segm. DIP40
S M 5482 B7	3239	Driver 2x7-segm.(15seg.) DIP20
S MAX 7219 CNG+	12731	Driver LED 8-char. serial DIP24
S MC 14489 P	2776	Driver LED 4,5-char. 16bit DIP20
S MM 5451 YN	67744	Driver LED 7-segm. 35x15mA DIP40
S SAA 1064	22688	Driver LED/4char. DIP24
S UAA 180 (A277D)	17902	Driver LED-meter



FET and Triac Drivers

Part No.	Ord. No.	Description
S IR 2110 PBF	7047	FET driver DIP14
S IR 2111 PBF	4562	FET driver half bridge DIP8
S IR 2112 PBF	5792	FET driver DIP14
S IR 2125 PBF	3887	FET driver DIP8
O LMD 18200T	2391	IC 3A/55V half bridge TO220
S LS 7632 IE	69815	Triac driver DIP8
S LS 7632 S	51657	Triac driver SO8
S T2117-3ASY	17900	Triac driver, zero switching DIP8
O T2117-TASY	45466	Triac driver, zero switching SO8
S TCA 785	17852	IC phase control for triac DIP16
S UAA 2016 PG	4505	Zero switch controller DIP8

Transistor Arrays and Drivers

Part No.	Ord. No.	Description
S L 293 D	22138	4-channel motor driver with diodes DIP16
S L 297	18138	Stepper motor driver DIP20
S L 298 N	18139	DC-Motor driver Multiwatt-15
S LMD 18245 T	40857	Full bridge motor driver TO220
S TD 62783 AP	4722	8xDarlington 0,5A/50V DIP18
O TDE 1707 BFP	9693	Intelligent power switch 0,5A SO-8
S U 2008 B-A = B-MY	7196	Phase-control IC with Soft Start DIP8
S ULN 2003 A	17748	7xDarlington 0,5A/50V DIP16
S ULN 2003 D1 SMD	23890	7xDarlington 0,5A/50V SO16
S ULN 2004 AN	17749	7xDarlington 0,5A/50V DIP16
S ULN 2004 D1 SMD	23891	7xDarlington 0,5A/50V SO16
S ULN 2801 A	18085	8xDarlington 0,5/50V DIP18
S ULN 2803 AP(M)	18087	8xDarlington 0,5A/50V DIP18
S ULN 2804 A	18088	8xDarlington 0,5A/50V DIP18

ICs for Telecommunication

Part No.	Ord. No.	Description
S ECHELON 50051R	8560	Transceiver Echelon LonWorks
O ECHELON 61000R-100	54839	Router Core Module
O ECHELON 75010R	54840	USB Network Interface
O ECHELON LPT-11 50040R-02	60588	Link Power Twisted Pair Transceiver
S LMC 567 CN	2491	PLL decoder DIP8
S MT 8870 DE	11808	Receiver DTMF CMOS, DIP18
O MT 8870 DS	42587	Receiver DTMF CMOS SO18
S NE 567 N	17817	PLL decoder DIP8

Analogue Multiplexers

Part No.	Ord. No.	Description
S DG 408 DJ	7050	Switch analog 1MPX8 DIP16
S DG 409 DJ	7051	Switch analog 2x1MPX4 DIP16
S DG 406 DJ-E3	8955	16--channel analog MPX DIP28



74 LS SMD

Part No.	Ord. No.	Description
o 74 LS 00 D	40647	Quad 2Inp NAND Gate SO14
o 74 LS 04 D	40648	Hex Inverter SO14
o 74 LS 06 D	40883	Hex Inverter SO14
o 74 LS 07 D	40884	Hex Inverter SO14
o 74 LS 14 M1	25166	Hex Trigger SO14
o 74 LS 244 DW	53226	Oct Bus Transc/Line driver SO20W
o 74 LS 245 DW	40653	Oct Bus Transc/N-Nv SOL20
o 74 LS 273 DW	40654	Oct D-Flip-Flop clear SO20

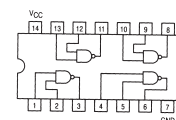
74 LS

Part No.	Ord. No.	Description
s 74 LS 00	26556	Quad 2Inp NAND Gate DIP14
s 74 LS 02	26558	Quad 2Inp NOR Gate DIP14
s 74 LS 03	26559	Quad 2Inp NAND Gate DIP14
s 74 LS 04	26560	Hex Inverter DIP14
s 74 LS 05	26561	Hex Inverter DIP14
s 74 LS 06	22654	Hex Inverter DIP14
s 74 LS 07	22655	Hex Inverter DIP14
s 74 LS 08	26562	Quad 2Inp AND Gate DIP14
s 74 LS 10	26563	Triple 3Inp NAND Gate DIP14
s 74 LS 125	26585	Tri State Quad Buff DIP14
s 74 LS 138	26589	Expand Decod Demultipl DIP16
s 74 LS 14	26565	Hex Trigger DIP14
s 74 LS 145	26590	BCD to Dec Dec Driver DIP16
s 74 LS 164	26595	Shift Reg 8bit Par Out DIP16
s 74 LS 193	26601	Syn.4B Up/Do.Bin.Coun. DIP16
s 74 LS 244	26606	Tri-Sta Oct Buff DIP20
s 74 LS 245	26607	Oct Bus Transc/N-Nv DIP20
s 74 LS 247	26608	BCD to 7 Seg Deco DIP16
s 74 LS 273	26610	Oct D-Flip-Flop clear DIP20
s 74 LS 30	26568	8Inp NAND Gate DIP14
s 74 LS 373	26613	Octal Latch DIP20
s 74 LS 47	26573	BCD to 7-Seg Dec Driv DIP16
s 74 LS 74	26575	Dual D Flip Flop DIP14
s 74 LS 86	26579	Quad Excl OR Gate DIP14
s 74 LS 90	26580	Dec.Div.By12+Bin.Coun.DIP14
s 74 LS 93	26581	4bit Binary Counter DIP14

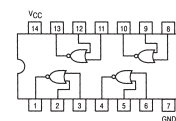
74HC SMD

Part No.	Ord. No.	Description
s 74 HC 00 M1	20762	Quad 2Inp NAND Gate SO14
s 74 HC 02 M1	20763	Quad 2Inp NOR Gate SO14
s 74 HC 04 M1	22866	Hex Inverter SO14
s 74 HC 05 D	6551	Hex Inverter SO14
s 74 HC 08 M1	20764	Quad 2Inp AND Gate SO14
s 74 HC 14 M1	20765	Hex Inv Schmitt Trigger SO14
s 74 HC 32 M1	20766	Quad 2Inp OR Gate SO14
s 74 HC 74 M1	20767	Dual D Flip Flop SO14
o 74 HC 123 D	48568	Dual Retrigger 1shots SO16
s 74 HC 125 M1	24024	Quad 3-Sta Buffer SO14
o 74 HC 126 M1	40919	Quad 3-Sta Buffer SO14
s 74 HC 132 M1	20770	Quad 2Inp Schmitt NAND SO14
s 74 HC 138 M1	20771	3 to 8 Line Decoder SO16
o 74 HC 157 M1	24029	Quad 2-input multiplexer SO16
s 74 HC 165 M1	24033	8bit Shift Reg P-In/S-Out SO16
s 74 HC 174 M1	20774	Hex D-Flip-Flop with Clear SO16
s 74 HC 245 M1	24042	Oct Bus Transc/N-Nv SOL20
s 74 HC 273 M1	24046	Octal D-Flip-Flop Clear wide SOL20
s 74 HC 373 M1	20777	Oct 3-Sta D-Part No. Latch SOL20
o 74 HC 393 D	41065	Dual 4bit Binary Counter SO14
o 74 HC 4040 M1	20779	12Stage Binary Counter SO16
o 74 HC 4051 M1	24071	8 Channel Analog Multipl SO16

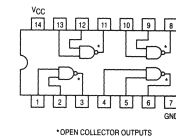
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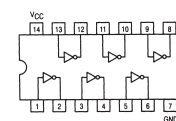
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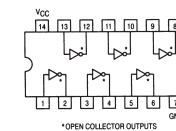
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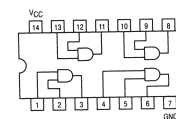
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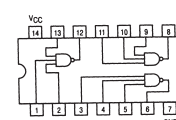
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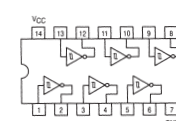
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74 xx 10



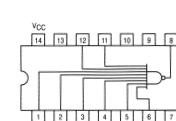
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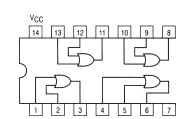
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74 xx 30



74 xx 32

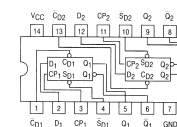


O	74 HC 4053 M1	24073	3x 2 Channel Analog MUX SO16
S	74 HC 4060 M1	24074	14 Stage Binary Counter SO16
S	74 HC 541 M1	24058	Tri-St. Oct Buffer SO20
S	74 HC 573 M1	24061	Octal Latch 3-State SOL20
S	74 HC 574 M1	24062	Octal D-FF Pet 3-St SOL20
S	74 HC 595 AD	2807	8bit Shift Reg/Outp Latch SO16

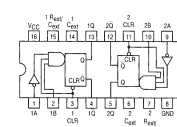
74HC

Part No.	Ord. No.	Description
O	74 AHC 1G 66 GW	44496 Pico Gate Bilateral Switch SOT353
O	74 AHC 1G 79 GW	44498 Pico Gate flip-flop circuit D SOT353
O	74 AHC 1GU 04 GW	53356 Pico Gate Inverter SOT353
S	74 HC 00	18171 Quad 2Inp NAND Gate DIP14
S	74 HC 02	18172 Quad 2Inp NOR Gate DIP14
O	74 HC 03	21099 Quad 2Inp NAND Gate DIP14
S	74 HC 04	18173 Hex Inverter DIP14
S	74 HC 08	18174 Quad 2Inp AND Gate DIP14
S	74 HC 10	18212 Tripple 3Input NAND Gate DIP14
S	74 HC 123	18422 Dual Retrigger 1shots DIP16
S	74 HC 126	18220 Quad 3-Sta Buffer DIP14
S	74 HC 132	18182 Quad 2Inp Schmitt NAND DIP14
O	74 HC 133	18463 13-Input NAND Gate DIP14
S	74 HC 138	18221 3 to 8 Line Decoder DIP16
S	74 HC 14	18213 Hex Inv Schmitt Trigger DIP14
O	74 HC 147	18222 10-to-4 line priority encoder DIP16
O	74 HC 153	18347 Dual 4-input multiplexer DIP16
S	74 HC 164	18226 8bit Shift Reg S-In/P-Out DIP14
S	74 HC 165	18227 8bit Shift Reg P-In/S-Out DIP16
S	74 HC 192	18980 4-Bit Binary Up/Down Counter DIP16
O	74 HC 1G 00 GV	51679 2Inp NAND Gate SOT753
O	74 HC 1G 00 GW	52749 2Inp NAND Gate SOT353
O	74 HC 1G 32 GV	51680 2Inp OR Gate SOT753
O	74 HC 1G 66 GV	51681 Analog Switch SOT753
S	74 HC 20	18176 Dual 4Inp NAND Gate DIP14
S	74 HC 240	38602 Inv 3-Sta Oct Bus Buf DIP20
S	74 HC 244	18233 Inv 3-Sta Oct Bus Buf DIP20
S	74 HC 245	38594 Oct Bus Transc/N-Nv DIP20
S	74 HC 251	18235 8 Channel Mtpx 3-Sta DIP16 !
S	74 HC 273	38595 Oct D-Flip-Flop Clear DIP20
S	74 HC 273 M1	24046 Octal D-Flip-Flop Clear wide SOL20
S	74 HC 30	18178 8-Input NAND Gate DIP14
S	74 HC 32	18179 Quad 2Inp OR Gate DIP14
S	74 HC 373	38596 Oct 3-Sta D-Part No. Latch DIP20
S	74 HC 374	38597 Oct 3-Sta D-Flip Flop DIP20
S	74 HC 390	18242 Dual Decade Ripple Counter DIL16
S	74 HC 4053	23169 8 Channel Analog Multipl DIP16
S	74 HC 4066	18354 Quad Bilateral Switch DIP14
S	74 HC 42	18180 BCD-to-Decim. Decoder DIP16
S	74 HC 540	38598 Tri-St. Inv Oct Buff DIP20
S	74 HC 541	38599 Tri-St. Oct Buffer DIP20
S	74 HC 573	38600 Octal Latch 3-State DIP20
S	74 HC 574	38601 Octal D-FF Pet 3-St DIP20
S	74 HC 595	19185 8bit Shift Reg/Outp Latch DIP16
S	74 HC 73	18462 Dual JK Flip Flop+Clr DIP14
S	74 HC 74	18214 Dual D Flip Flop DIP14
S	74 HC 86	18356 Quad 2Inp Excl OR Gate DIP14
S	74 HC 93	23157 4bit Binary Counter DIP14

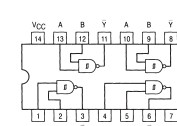
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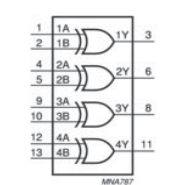
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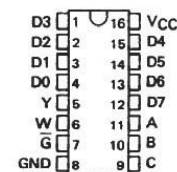
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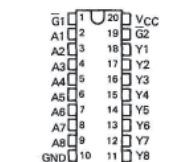
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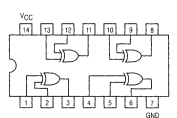
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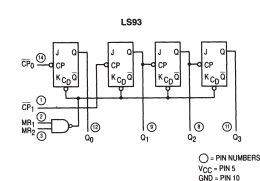
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74 xx 93



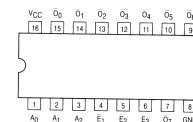
74HCT SMD

Part No.	Ord. No.	Description
S 74 HCT 00 M1	20780	Quad 2Inp NAND Gate SO14
S 74 HCT 02 M1	20781	Quad 2Inp NOR Gate SO14
S 74 HCT 04 M1	20782	Hex Inverter SO14
S 74 HCT 05 M1	40880	HEX inverter SO14
S 74 HCT 08 M1	20783	Quad 2Inp AND Gate SO14
S 74 HCT 32 M1	20785	Quad 2Inp OR Gate SO14
S 74 HCT 74 M1	20786	Dual D-Flip Flop+Pres SO14
S 74 HCT 123 M1	23963	Dual Retrigger 1Shots SO16
S 74 HCT 125 M1	23964	Quad 3-Sta Buffer SO14
S 74 HCT 138 M1	20787	3 to 8 Line Decoder SO16
S 74 HCT 14 M1	20784	Hex Inv Schmitt Trigger SO14
S 74 HCT 164 D	23973	8bit Shift Reg S-In/P-Out SO14
S 74 HCT 245 M1	23984	Oct Bus Transc/N-Nv SOL20
O 74 HCT 257 M1	23986	Quad 2-input multiplexer, 3-state SO16
O 74 HCT 259 M1	23987	8bit Addressable Latch SO16
O 74 HCT 273 M1	23988	Oct D-Fli-Flo Clear SOL20
O 74 HCT 374 M1	20790	Octal D-FF Tri-St. SOL20
S 74 HCT 541 D	23995	Tri-St. Oct Buff SOL20
S 74 HCT 563 M1	23996	Octal D-Part No. Latch SOL20
S 74 HCT 573 D	23998	Octal Latch 3-State SOL20
S 74 HCT 574 M1	23999	Octal D-FF Pet 3-St SOL20
O 74 HCT 595 D	40517	8bit shift register SO16
O 74 HCT 4040 M1	24005	12Stage Binary Counter SO16
O 74 HCT 4053 D	24007	3x2-channel analog MUX/DMX SO16

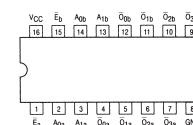
74HCT

Part No.	Ord. No.	Description
S 74 HCT 00	20879	Quad 2Inp NAND Gate DIP14
S 74 HCT 04	20885	Hex Inverter DIP14
S 74 HCT 05 N	2130	Hex Inverter (Open Drain) DIP14
S 74 HCT 10	20888	Tripple 3Input NAND Gate DIP14
S 74 HCT 123	20909	Dual Retrigger 1Shots DIP16
S 74 HCT 132	20913	Quad 2Inp Schmitt NAND DIP14
S 74 HCT 138	20915	3 to 8 Line Decoder DIP16
S 74 HCT 14	20890	Hex Inv Schmitt Trigger DIP14
S 74 HCT 153	20919	Dual 4-line to 1-line multiplexer DIP16
S 74 HCT 164	20927	8bit Shift Reg S-In/P-Out DIP14
S 74 HCT 193	20937	Syn.4B Up/Do. Bin.Coun.DIP16
S 74 HCT 244	38807	Inv 3-Sta Oct Bus Buf DIP20
S 74 HCT 245	19187	Oct Bus Transc/N-Nv DIP20
O 74 HCT 257	20946	Quad 2-input multiplexer, 3-state DIP16
S 74 HCT 273	38590	Oct D-Fli-Flo Clear DIP20
S 74 HCT 32	20897	Quad 2Inp OR Gate DIP14
S 74 HCT 373	38589	Octal Transp.Latch DIP20
S 74 HCT 374	38805	Octal D-FF Tri-St. DIP20
S 74 HCT 393	20961	Dual 4bit Binary Counter DIP14
S 74 HCT 4040	20989	12Stage Binary Counter DIP16
S 74 HCT 4053	20993	Triple 2-ch analog MUX/DMX DIP16
S 74 HCT 4060	20994	14 Stage Binary Counter DIP16
S 74 HCT 541	38806	Tri-St. Oct Buf DIP20
S 74 HCT 563	18252	Octal D-Part No. transparent latch DIP20
S 74 HCT 573	38622	Octal Latch 3-State DIP20
S 74 HCT 574	38623	Octal D-FF Pet 3-St DIP20
S 74 HCT 595	33072	8bit Shift Reg/Outp Latch DIP16
S 74 HCT 74	20900	Dual D-Flip Flop+Pres DIP14
S 74 HCT 86	20905	Quad 2Inp Excl OR Gate DIP14

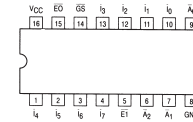
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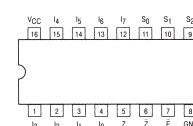
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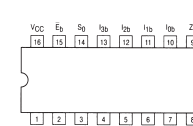
74 xx 148



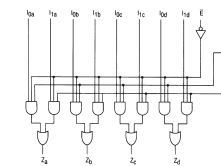
74 xx 151



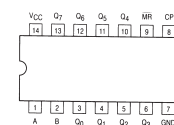
74 xx 153



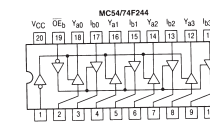
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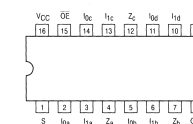
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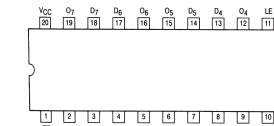
74 xx 244



74 xx 257



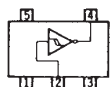
74 xx 373



TinyLogic Inverters

Part No.	Ord. No.	Description
S NC 7S00 M5_NL	6941	1x2NAND SOT23/5 HCT
S NC 7S04 M5_NL	6943	1xINV SOT23/5 HCT
S NC 7S14 M5	6944	1xSchmitt inv. SOT23/5 HCT
S NC 7S86 M5	6945	1x2xOR SOT23/5 HCT

1xINV SCHMITT



1xINV



1x2NOR



1x2xOR



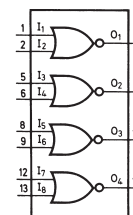
CMOS 4000 SMT

Part No.	Ord. No.	Description
S CMOS 4001 SMD	19487	4x2 IN NOR SO14
S CMOS 4011 SMD	19492	4x2 IN NAND SO14
S CMOS 4013 SMD	19493	2x D-Flip Flop SO14
S CMOS 4017 SMD	19498	Dec. counter/divider SO16
S CMOS 4024 SMD	19505	7-bit ripple counter SO14
S CMOS 4049 SMD	26499	6xdriver SO16
S CMOS 4051 SMD	19522	8-channel analog. MX/DE MX SO16
S CMOS 4069 SMD	19531	6x inverter SO14
S CMOS 4081 SMD	19552	4X2 IN AND SO14
S CMOS 4093 SMD	19540	4x2-input NAND-Schmitt SO14
S CMOS 4094 SMD	19541	8bit shift register for bus SO16
S CMOS 4543 SMD	53677	Decoder/Driver BCD 7seg. SO16

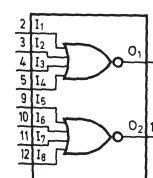
CMOS 4000

Part No.	Ord. No.	Description
S CMOS 4001	17455	4x2 IN NOR DIP14
S CMOS 40106	17622	6xSchmitt DIP14
S CMOS 4011	17465	4x2 IN NAND DIP14
S CMOS 4012	17467	2x4 IN NAND DIP14
S CMOS 4013	17469	2xD-Flip FlopDIP14
S CMOS 4017	17477	Dec. counter/divider DIP16
S CMOS 4020	17483	14-bit ripple counter DIP16
S CMOS 4021	17485	8 bit stat. shift register DIP16
S CMOS 4023	17489	3x3 IN NAND DIP14
S CMOS 4024	17491	7 bit ripple counter DIP14
S CMOS 4025	17493	3x3 IN NOR DIP14
S CMOS 4026	17495	Decad. counter/divider DIP16
S CMOS 4027	17496	2x Flip Flop circuit DIP16
S CMOS 4028	17498	Decad. decoder BCD DIP16
S CMOS 4029	17500	Up/Down synchronous counter with preset DIP16
S CMOS 4030	17502	4x2 IN Exclusive-OR DIP14
S CMOS 4040	17511	12-bit ripple counter DIP16
S CMOS 4043	17517	4x NOR R/S latch, DIP16
S CMOS 4046	17522	PLL with VCO DIP16
S CMOS 4047	17524	Monostable/Astable Multivibrator DIP14
S CMOS 4049	17526	6xbuffer/converter, inverter DIP16
S CMOS 4050	17528	6xbuffer/converter (non-inverting) DIP16
S CMOS 4051	17530	8--channel. analog MX/DE MX DIP16
S CMOS 4052	17532	4--channel differ. MX/DE MX DIP16
S CMOS 4052 SMD	19523	4--channel differ. MX/DE MX SO16

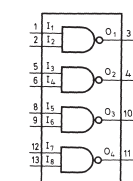
CMOS 4001



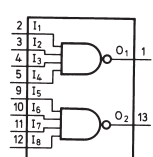
CMOS 4002



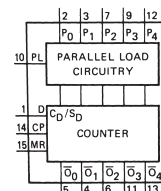
CMOS 4011



CMOS 4012



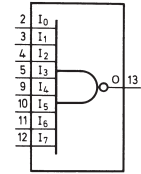
CMOS 4018



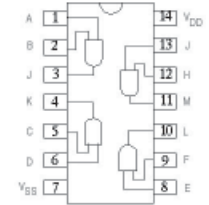
CMOS 4000 (continued)

S	CMOS 4053	17534	3x2-channels analog. MX/DE MX DIP16
S	CMOS 4053 SMD	19524	3x2-channels analog. MX/ DE MX SO16
S	CMOS 4060	17537	12bit. counter, oscillator DIP16
S	CMOS 4060 SMD	19527	12bit. counter, oscillator SO16
S	CMOS 4066	17539	4x Analog switch (Low "ON" Resistance) DIP14
S	CMOS 4066 SMD	19529	4x Analog switch (Low "ON" Resistance) SO14
S	CMOS 4067	17541	16-channel analog MX DIP24
S	CMOS 4068	17543	1x8 IN NAND DIP14
S	CMOS 4069	17545	6x inverter DIP14
S	CMOS 4070	17547	4x2-input Exclusive-OR DIP14
S	CMOS 4081	17563	4x2-input AND DIP14
S	CMOS 4082	17565	2x4-inputAND DIP14
S	CMOS 4093	17571	4x2-input NAND-Schmitt. Flip Flop DIP14
S	CMOS 4094	17573	8-stage shift-and-store bus DIP16
S	CMOS 4098	17577	2x one-shot monostable DIP16
S	CMOS 4503	18986	6x non-inverting buffer with tristate outputs DIP16
S	CMOS 4511	17587	BCD to 7-segment latch/decoder/driver DIP16
S	CMOS 4514	17591	4bit counter decoder DIP24
S	CMOS 4518	17596	2x synchr.counter BCD DIP16
S	CMOS 4520	17598	2x.4-bit binary up counter DIP16
S	CMOS 4521	40715	24-stage freq. divider DIP16
O	CMOS 4536	19191	Programmable Timer DIP16
S	CMOS 4538	21096	2x retriggerable monostable multivibrator DIP16
S	CMOS 4543	17606	BCD/7-Seg. Latch/Decoder/Driver with phase input DIP16
S	CMOS 4553	3177	3-digit BCD counter DIP16
S	CMOS 4555	17607	2x 1-of-4 decoder/demultiplexer HIGH output DIP16
S	CMOS 4584	27291	6xSchmitt DIP14

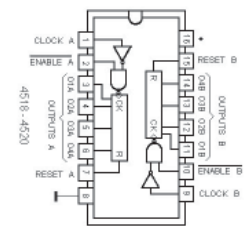
CMOS 4068



CMOS 4081

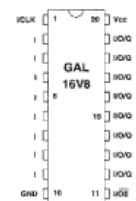


CMOS 4518-20



GAL Logic Arrays

Part No.	Ord. No.	Description
S GAL 16 V 8 D-15 LPN	37521	Programmed logic array 90mA 15ns DIP20
S GAL 16 V 8 D-15 QP	37523	Programmed logic array 45mA 15ns DIP20
S GAL 16 V 8 D-25 QPN	37524	Programmed logic array 45mA 25ns DIP20
S GAL 20 V 8 B-25 QPN	37527	Programmed logic array 45mA 25ns DIP24
S GAL 22 V 10 D-25 LP=15LP	38298	Programmed logic array 90mA 25ns DIP24



SRAM

Part No.	Ord. No.	Description
S 621024 LLP-07 (SM621008LLP70)	2922	SRAM 128Kx8 5V DIP32
S 621024 LLP-07 SMD (SM621008LLP70M)	2949	SRAM 128Kx8 5V SOP32
S 62256 LLP-07 (SM620808LLP70)	27325	SRAM 32Kx8 70ns 5V DIP28
S 62256 LLP-07 SMD (SM620808LLP70M)	21110	SRAM 32Kx8 70ns 5V SOP28
S 6264 LLP-07	27324	SRAM 8Kx8 70ns 5V DIP28
S 628512 LP-07 (SM624008LLP70)	3452	SRAM 512Kx8 70ns 5V DIP32
S 628512 LP-07 SMD (SM624008LLP70M)	3331	SRAM 512Kx8 5V SOP32
S PCF 8570 P	36468	SRAM 256x8 I2C DIP8

SRAM - speed

Part No.	Ord. No.	Description
O SM61 1016HSA10J	9668	SRAM 64Kx16 10ns SOJ44
O SM61 1016VHSA12T	9682	SRAM 64Kx16 12ns 3,3V TSOP44
O SM61 4016HSA12T	9674	SRAM 256Kx16 12ns TSOP44
O SM62 4008VLLP70T	48345	SRAM 512Kx8 70ns 3,3V TSOP32-II

SRAM - Zeropower a Timekeeper

Part No.	Ord. No.	Description
O DS 1250 Y-70	49467	SRAM Nonvolatile 512Kx8 DIP32
S M 41 T 81 M6E	52690	Timekeeper SRAM 512bit SO8
O M 48 T 08 - 150 PC1	29187	CMOS Z-Power/Tim. DIP28

FRAM

FRAM, an acronym for ferroelectric random access memory, is a non-volatile memory that can hold data even after it is powered off. In spite of the name, FRAM is a ferroelectric memory and is not affected by magnetic fields as there is no ferrous material (iron) in the chip. Ferroelectric materials switch polarity in an electric field, but are not affected by magnetic fields.

FRAM's key advantages over EEPROM:

1) Speed. FRAM has fast write times. Beyond all the other operations, the actual write time to an FRAM memory cell is less than 50ns. That is approximately 1000x faster than EEPROM. Additionally, unlike EEPROM where you must have two steps to write data: a write command, followed by a read/verify command; FRAM's write memory function happens in the same process as read memory. There is only one memory access command, one step for either reading or writing. So in effect, all the time associated with an EEPROM write transaction is effectively eliminated in an FRAM-based smart IC.

2) Low Power. Writes to the FRAM cell occur at low voltage and very little current is needed to change the data. With EEPROM high voltages are needed. FRAM uses very low power - 1.5v compared to 10-14v for EEPROM. FRAM's low voltage translates into low power usage and enables more functionality at faster transactions speeds.

3) Data Reliability. Because only a small amount of energy is required, all the necessary power for FRAM is front-loaded at the beginning of data write. This avoids "data-tearing," a partial write of the data which occurs when EEPROM based smart ICs are removed from the RF field power source during a write cycle. Further, FRAM experiences 100 Trillion read/write cycles or greater - far exceeding EEPROM write cycles.

Parallel FRAM

- standard pins out SRAM/EEPROM
- very low consumption in idle mode, less than 20 uA

Serial FRAM 2-Wire

- standard protocol 2-Wire
- very low consumption in idle mode, version for 3V less than 1uA
- very low consumption

Serial FRAM SPI

- standard SPI protocol
- very low consumption in idle mode, version for 3V less than 1uA

Part No.	Ord. No.	Description
O FM 1608-120-S	48209	FRAM 8Kx8 5V 120ns SOIC28
O FM 1808-70-S	48210	FRAM 32Kx8 5V 70ns SOIC28
O FM 18L08-70-S	48208	FRAM 32Kx8 3-3,65V 70ns SOIC28
S FM 24 C 04A-G	4324	FRAM 4K 400kHz 2WIRE SO8
S FM 24 C 16A-G	5356	FRAM 16K 400kHz I2C SO8
S FM 24 C 16A-P	5496	FRAM 16K 400kHz I2C DIP8
S FM 24 C 256-G	5358	FRAM 256K 1MHz I2C SO8
S FM 24 C 64-G	5357	FRAM 64K 1MHz I2C SO8
O FM 24 CL 16-G	64333	FRAM 16Kb 1MHz 2WIRE 2,7-3,6V SO8
O FM 24 CL 64-G	43132	FRAM 64K 3,3V I2C SO8
S FM 25 640-S	5361	FRAM 64K 5MHz SPI SO8
O FM 25 L 256-G	52824	FRAM 256K 3V 25MHz SPI SO8

Comparison			
Manufacturer	Part No.	Idle current	Write 1 Byte
RAMTRON	FM24C16	10uA	72us
ATMEL	AT24C16	18uA	10ms
ST	ST24C16	300uA	10ms
MICROCHIP	24AA16	100uA	10ms
XICOR	X24C16	150uA	10ms





EPROM

Part No.	Ord. No.	Description
S 27 C 010-90 PLCC32	38618	EPROM 128Kx8 90ns PLCC32
S 27 C 020-100	34370	EPROM 256Kx8 100ns DIP32
S 27 C 256-100 UV	27335	EPROM 32Kx8 100ns DIP28
S 27 C 4001-100	29190	EPROM 512Kx8 100ns DIP32
S 27 C 512-100	29855	EPROM 64Kx8 100ns DIP28
O 27 C 512-90 PLCC32	38619	EPROM 64Kx8 90ns PLCC32
S 27 C 64-150	25489	EPROM 8Kx8 150ns DIP28
S 27 C 801-100F1	40587	EPROM 1Mx8 100ns DIP32
S 27 C 1001-10F1	27337	EPROM 128Kx8 100ns DIP32

EEPROM

Interface	Wires	Transfer rate (max.)
I2C	2 wires (I/O, clock)	400 kbit/s
Microwire	4 wires (data-in/data-out, clock a CS)	1 Mbit/s
SPI	4 wires (data-in/data-out, clock a CS)	20 Mbit/s

Serial - I²C Bus

Part No.	Ord. No.	Description
2,5V bus		
S 24 LC 16 B/P	6564	EEPROM serial 2Kx8 DIP8
S 24 LC 16 B/SN	3039	EEPROM serial 2Kx8 2,5V SO8
S 24 LC 256 I/P	45143	EEPROM serial 256K DIP8
S 24 LC 256 I/SN	44700	EEPROM serial 256K SO8
O 24 LC 32 A/P	8300	EEPROM serial 4Kx8 DIP8
O 24 LC 32 A/SN	43857	EEPROM serial 4Kx8 SO8
O 24 LC 64 I/SN	45774	EEPROM serial 8Kx8 SO8
S 24 LC 65/SM	6268	EEPROM serial 8Kx8 SO8
5V bus		
S M 24 C 02-WBN6P	27319	EEPROM ser. 2K I2C 2,5-5,5V DIP8
S M 24 C 02-WMN6P	29509	EEPROM ser 2K I2C 2,5-5,5V SO8
S PCF 8582 C-2 P	40708	EEPROM ser. 2kbit I2C 2,5-5V DIP8
S M 24 C 04-WBN6P	29545	EEPROM ser. 4K I2C 2,5-5,5V DIP8
S M 24 C 08-WBN6P	34360	EEPROM ser. 8K I2C 2,5-5,5V DIP8
S M 24 C 16-WBN6P	36084	EEPROM ser. 16K I2C 2,5-5,5V DIP8
S M 24 C 16-WMN6P	36083	EEPROM ser. 16K I2C 2,5-5,5V SO8
S M 24 C 32-WBN6P	8357	EEPROM ser. 32K I2C 2,5-5,5V DIP8
S M 24 C 32-WMN6P	65113	EEPROM ser. 32K I2C 2,5-5,5V SO8
S M 24 C 64-WBN6P	8358	EEPROM ser. 64K I2C 2,5-5,5V DIP8
S M 24 256-BWMN6P	45385	EEPROM ser. 256K I2C 2,5-5,5V SO8



Serial - MICROWIRE

Part No.	Ord. No.	Description
2,5V bus		
S 93 LC 46 A/IP	4272	EEPROM serial 128Kx8 DIP8
5V bus		
S 93 C 56 B1 ST	4201	EEPROM serial 256x8/128x16 DIP8
O 93 C 56 CM1	48451	EEPROM serial 256x8/128x16 SO8
O 93 C 66 M	42868	EEPROM serial 512x8/256x16 SO8
O 93 C 66 WP	5518	EEPROM serial 256x16/512x8 DIP8
O 93 C 86 BN6	8360	EEPROM serial 16K M-WIRE DIP8
S M 93 C 46-WBN6P	27321	EEPROM serial 1K M-WIRE 8/16 bit DIP8
S M 93 C 46-WMN6P	29508	EEPROM serial dual 128x8/64x16 SO8



Serial - SPI

Part No.	Ord. No.	Description
o 25 AA 640-I/P	48548	EEPROM serial SPI 8Kx8 1,8-5,5V DIP8
o 25 LC 256 I/SN	52490	EEPROM serial 32Kx8, 2,7-5,5V SO8
o 25 LC 640 I/SN	8597	EEPROM serial 8Kx8, 2,7-5,5V SO8
o 25 LC 640-I/P	48588	EEPROM serial 8Kx8, 2,7-5,5V DIP8
o AT 25 640AN-10SI-2,7	48017	EEPROM SPI Bus, High Speed SO8

Parallel

Part No.	Ord. No.	Description
s 28 C 256-150	27318	EEPROM 32Kx8 150ns DIP28
s 28 C 64 C-150	36463	EEPROM 8Kx8 150ns DIP28

FLASH

Serial - DataFlash®

DataFlash® is the world's number one selling serial interface flash family. Introduced in 1997, Atmel's Dataflash families (45 series and the recently introduced 26 series) are feature rich, low pin count, sequential access families ideal for program code, data storage, Serial EEPROM replacement, and the next generation PC Bios Market.

Simple SPI Interface, Robust Architecture

DataFlash employs proven NOR technology (100% good bits), a robust architecture featuring on-board SRAM buffers (45 series), small pages and flexible op codes. Small pages facilitate easier changes to the chip's contents with less power consumption and eliminate the large external RAM buffers required by large sector flash.

The simple SPI interface greatly reduces system pin counts, power consumption and switching noise. System design is greatly simplified with DataFlash, as all densities 1 Mbit to 128 Mbits (45 series), and 4 Mbit to 32M bit (26 series) require only 4 pins to connect to the system processor, controller or DSP. This also allows for an easy migration path between densities with no board changes. DataFlash is offered in several footprint-compatible packages including SOIC/CASON, TSOP, MLF and CBGA.

World's Fastest Serial Flash

For frequencies greater than 33 MHz, Atmel has pioneered the RapidS™ serial interface on its 45 series products. RapidS is a natural extension of SPI and allows bus frequencies of 50 Mhz and beyond. For applications requiring even faster read throughput, Atmel has introduced Rapid8™, an 8-bit sequential access interface on the high-density 45 series DataFlash products. The Rapid8 interface is offered on the 64 Mbit and 128 Mbit 45 series devices. These two devices can operate with the RapidS/SPI interface, the Rapid8 interface or both.

A Better Way

System designers have adopted DataFlash as the sole nonvolatile memory block in their system, replacing up to three memories to hold program code, user data and ID, calibration, or parametric data. DataFlash increases reliability and dramatically reduces total system costs, size, switching noise and manufacturing complexity.

Part No.	Ord. No.	Description
o AT 45 DB 021 B-RU	43738	Flash serial 2,7V 2Mbit 20MHz SO28
s AT 45 DB 021 B-SU	43737	Flash serial 2,7V 2Mbit 20MHz SO8
o AT 45 DB 021 B-TU	43743	Flash serial 2,7V 2Mbit 20MHz TSOP28
o AT 45 DB 041 B-RU	43740	Flash serial 2,7V 4Mbit 20MHz SO28
o AT 45 DB 041 D-MU	43744	Flash serial 2,7V 4Mbit 66MHz MLF8
s AT 45 DB 041 D-SU	58216	Flash serial 2,7V 4Mbit 66MHz SO8
o AT 45 DB 081 B-TU	43058	Flash serial 2,7V 8Mbit 20MHz TSOP28
s AT 45 DB 161 D-SU	56897	Flash serial 2,7V 16Mbit 66MHz SO8
s AT 45 DB 161 D-TU	56898	Flash serial 2,7V 16Mbit 66MHz TSOP28
o AT 45 DB 321 D-TU	58804	Flash serial 2,7V 32Mbit 40MHz TSOP28

Parallel

Part No.	Ord. No.	Description
s AM 29 F 010-90 JD	5905	Flash PEROM 5V 128Kx8 5V PLCC32
o AM 29 F 010B-70JD	59563	Flash 128Kx8 5V PLCC32
s AM 29 F 010B-90 PD=PF	40497	Flash PEROM 5V 128Kx8 5V PDIP32
o AM 29 F 032B-90EF	47963	Flash PEROM 5V 4Mx8 TSOP40
s AM 29 F 040-70JD	9514	Flash 512Kx8 70ns PLCC32
s AM 29 F 040B-90PD	3119	Flash PEROM 5V 512Kx8 DIP32
s AT 29 C 040A-90 JU	43756	Flash PEROM 5V 512Kx8 90ns PLCC32
s AT 29 C 512-70JU	2871	Flash PEROM 5V 64Kx8 70ns PLCC32



Universal Programmers

BeeProg+

Extremely fast universal USB/LPT interfaced programmer.



- extremely fast programming, one of the fastest programmers in this category. Programs 64-Mbit NOR Flash memory less than 46 seconds and 1Gbit NAND Flash less than 120 sec.
- 48-pins powerful pindrivers, no adapter required for any DIL devices
- connector for in-circuit programming (ISP)
- dual connection to PC: USB (up to 480 Mbit/s) or parallel (printer) port
- USB 2.0 (high speed, full speed) and 1.1 compatible interface
- alternatively high-speed IEEE 1284 (ECP/EPP) printer-port (LPT) interface
- comfortable and easy to use control program, Windows 98/Me/NT/2000/XP/2003/XPx64/Vista compatible
- Multiprogramming possible by attaching more programmers to one PC
- approved by CE laboratory to meet CE requirements

Part No.	Ord. No.
o BEEPROG+	63421

SMARTprog2

Universal, ISP capable programmer



- small, fast and powerful universal programmer
- DIL40 ZIF socket, devices in DIL package up to 40 pins are supported without adapters
- connector for in-circuit programming (ISP)
- connection to PC: USB port
- USB 2.0 full speed and USB 1.1 compatible
- comfortable and easy to use control program, Windows 95/98/Me/NT/2000/XP/2003/XPx64/Vista compatible
- free SW update, download from Internet
- power supply, cable and software included
- approved by CE laboratory to meet CE requirements

Part No.	Ord. No.
o SMARTPROG2	55192

Specialized Programmers

MEMprog2

Universal memory programmer



- small, fast and powerful programmer of EPROM, EEPROM, Flash EPROM, NVRAM and serial EEPROM
- DIL40 ZIF socket, memories in DIL package up to 40 pins are supported without adapters
- connection to PC: USB port
- USB 2.0 full speed and USB 1.1 compatible
- upgradeable to SmartProg2 programmer
- comfortable and easy to use control program, Windows 98/Me/NT/2000/XP/2003/XPx64/Vista compatible
- free SW update, download from Internet
- power supply, cable and software included
- approved by CE laboratory to meet CE requirements

Part No.	Ord. No.
o MEMprog2	70287

MEMprogl

Universal memory programmer



- small and powerful programmer of EPROM, EEPROM, Flash EPROM, NVRAM and serial EEPROM
- DIL32 ZIF socket, memories in DIL package up to 32 pins are supported without adapters
- connection to PC - parallel (printer) port
- comfortable and easy to use control program, Windows 95/98/Me/NT/2000/XP/Vista compatible
- free SW update, download from Internet
- power supply, cable and software included
- approved by CE laboratory to meet CE requirements

Part No.	Ord. No.
o MEMPROG L	48739

SOS electronic - distributor of ELNEC programmers



T51prog2

MCS51 series and Atmel AVR microcontrollers ISP capable fast programmer



- small, very fast and powerful portable programmer of MCS51 series and Atmel AVR microcontrollers
- in-circuit serial programming (ISP) capability included
- full-speed programming of serial EEPROM (IIC, Microwire and SPI interface)
- DIL40 ZIF socket, all MCS51/AVR chips in DIL package up to 40 pins are supported without adapters
- connection to PC: USB port
- USB 2.0 full speed and USB 1.1 compatible
- upgradeable to SmartProg2 programmer.
- comfortable and easy to use control program, Windows 98/Me/NT/2000/XP/2003/XPx64/Vista compatible compatible
- free SW update, download from Internet
- power supply, cable and software included
- approved by CE laboratory to meet CECE sign requirements

Part No.	Ord. No.
o T51prog2	70285

PIKprog2

Microchip™ PICmicro® series microcontrollers, ISP capable programmer.



- small, very fast and powerful portable programmer of Microchip™ PICmicro® series microcontrollers
- in-circuit serial programming (ISP) capability included
- full-speed programming of serial EEPROM (IIC, Microwire and SPI interface)
- DIL40 ZIF socket, all PICmicro® chips in DIL package up to 40 pins are supported without adapters
- connection to PC: USB port
- USB 2.0 full speed and USB 1.1 compatible
- upgradeable to SmartProg2 programmer.
- comfortable and easy to use control program, Windows 98/Me/NT/2000/XP/2003/XPx64/Vista compatible
- free SW update, download from Internet
- approved by CE laboratory to meet CE requirements
- small dimensions
- power supply, cable and SW included

Part No.	Ord. No.
o PIKprog2	70286

SEEpog

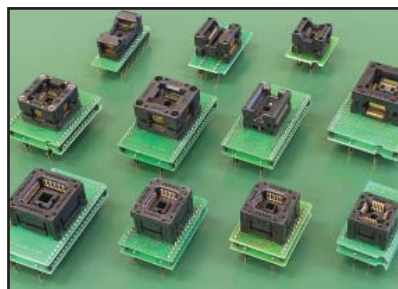
Serial EEPROM programmer



- small and powerful portable programmer of all 8-pins serial EEPROMs
- supports interfaces IIC (24Cxx), Microwire (93Cxx), SPI (25Cxx)
- supports programming LV (3.3V) EEPROM
- comfortable and easy to use control program, Windows 95/98/Me/NT/2000/XP/Vista compatible
- free SW update, download from Internet
- approved by CE laboratory to meet CE requirements
- connection to PC - via printer port
- power supply, cable and SW included

Part No.	Ord. No.
o SEEPROG	44887

Socket Convertors



Part No.
DIL20W/PLCC20 ZIF
DIL28/PLCC28 ZIF
DIL32/PLCC32 ZIF
DIL44/PLCC44 ZIF
DIL40/PLCC44 ZIF W-EPROM/MCS51
DIL48/PLCC52 ZIF 68HC11
DIL16W/SOIC16 ZIF 150mil
DIL8/SOIC8 ZIF 200mil
DIL20W/SOIC20 ZIF 300mil
DIL28W/SOIC28 ZIF 300mil
DIL32/TQFP32-1 ZIF
DIL44/TQFP44-1 ZIF
DIL48/TQFP48-1 ZIF
DIL40/TQFP64 ZIF AVRmega-2
DIL48/TSOP48 ZIF 18.4mm
DIL24W/TSSOP24 ZIF 170 mil
DIL28/TSSOP28 ZIF 170mil
DIL28W/SSOP28 ZIF 200mil
DIL44/PSOP44 ZIF 600mil
DIL32/MLF32-1 ZIF-CS

Overview:

8-bit 8051	8-bit RISC	32-bit
ATMEL - AT89C, AT89S CYGNAL - C8051 DALLAS - DS80C, DS89C, Analog Devices - ADuC8	ATMEL - ATMEGA, ATtiny Microchip - PIC12, PIC16, PIC18 Motorola - MC68	STMicroelectronics - STR7, STR9 Texas Instruments - MSP430 ATMEL - AT91SAM

8-bit Microprocessors



8051 Series

Part No.	Ord. No.	Description
S AT 89 C 2051-24PU	3147	MCU 5V 2K Flash 24MHz DIP20
S AT 89 C 2051-24SU	2681	MCU 5V 2K Flash 24MHz SOIC20
O AT 89 C 2051x2-16PI	52547	MCU 5V 2K Flash 16MHz CLKx2 DIP20
S AT 89 C 4051-24PU	3168	MCU 5V 4K Flash 24MHz DIP20
S AT 89 C 4051-24SU	42603	MCU 5V 4K Flash 24MHz SO20
S AT 89 C 51 AC2-SLSUM	59399	MCU 32kB Flash, 40MHz PLCC44
S AT 89 C 51 ED2-RLTUM	50361	MCU 64kB Flash 40MHz 2,7-5,5V VQFP44
S AT 89 C 51 ED2-SLSUM	48677	MCU 64kB Flash, 40MHz, 2,7-5,5V PLCC44
O AT 89 C 51 ID2-SLSUM	47880	MCU 5V 64K Flash 60MHz PLCC44
O AT 89 C 51 RD2-SLSUM	8839	ISP-MC 64kB Flash, 40MHz, PLCC44
S AT 89 C 51-24PI	2459	MCU 5V 4K-Flash 24MHz DIP40
O AT 89 C 5131A-TISUL	50881	MCU USB 32kB Flash, 48Mhz, 3,0-3,6V SO28
O AT 89 C 5131-S3SIL	50880	MCU USB 32kB Flash, 48Mhz, 3,0-3,6V PLCC52
S AT 89 C 52-24PI	2235	MCU 5V 8K-Flash 24MHz DIP40
S AT 89 C 55 WD-24PU	5917	MCU 5V 20K Flash 24MHz DIP40
O AT 89 C5131A-S3SUM	55484	MCU USB 32kB Flash, 48Mhz, 2,7-5,5V PLCC52
S AT 89 LP 2052-20PU	60975	MCU 2,4-5,5V 2K Flash 20MHz DIP20
S AT 89 LP 4052-20PU	55406	MCU 2,4V 4K Flash 20MHz PDIP20
S AT 89 LP 4052-20SU	55407	MCU 2,4V 4K Flash 20MHz SO20
O AT 89 LS 51-16JU	50431	MCU ISP 2,7-4V 4K-Flash 16MHz PLCC44
O AT 89 LS 51-16PU	50430	MCU ISP 2,7-4V 4K-Flash 16MHz DIP40
S AT 89 S 2051-24SU	54043	MCU ISP 2,7-5V 2K Flash 24MHz SO20
O AT 89 S 51-24JU	48984	MCU ISP 5V 4K Flash 24MHz PLCC44
S AT 89 S 51-24PU	47985	MCU 5V 4K Flash 24MHz DIP40
S AT 89 S 52-24AU	47990	MCU 5V 8K Flash 24MHz TQFP44
S AT 89 S 52-24JU	47987	MCU 5V 8K Flash 24MHz PLCC44
S AT 89 S 52-24PU	47986	MCU 5V 8K Flash 24MHz DIP40
S AT 89 S 8253-24JU	51222	MCU 2,7-5,5V 12K Flash 24MHz PLCC44
S AT 89 S 8253-24PU	51221	MCU 2,7-5,5V 12K Flash 24MHz DIP40
ATMEL - TEMIC		
S 80 C 31 X2-MCA=AT80C31X2-3CSUM	273	MCU ROMLESS 40MHz DIP40
S 80 C 32 X2-MCA=AT80C32X2-3CSUM	784	MCU ROMLESS 40MHz DIP40
S 80 C 32 X2-MCB = AT80C32X2-SLSUM	33043	MCU PLCC44

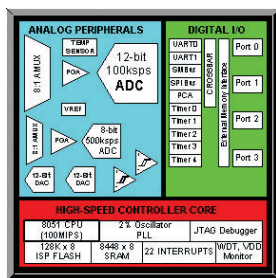
AT 89 ISP CABLE



ISP adaptor for AT89S serial programming.

Part No.	Ord. No.
O AT 89 ISP CABLE	55336

8051 Series - SILABS (CYGNAL)



Our 8-bit mixed-signal MCUs integrate world-class analog, a pipelined 8051 CPU, in-system programmable Flash memory and on-chip debug in each device. No other MCU supplier can provide the level of high-performance analog and functional density to provide user with design flexibility, improved time-to-market, superior system performance and greater end product differentiation.

Part No.	Ord. No.	Description
o C8051F121-GQ	58828	MCU 12-bit/8-ch ADC TQFP64
o C8051F126-GQ	48337	MCU 12-bit/8-ch ADC TQFP100
o C8051F300-GM	50921	MCU 8kB Flash 8-bit/8-ch ADC MLP11
o C8051F301	53254	MCU 8kB Flash QFN11
o C8051F302	53255	MCU 8kB Flash 8bit/8ch ADC QFN11
o C8051F303	53215	MCU 8kB Flash QFN11
o C8051F310 GQ	54552	MCU 16kB Flash 10-bit/21-ch ADC LQFP32
o C8051F310-GQ	50210	MCU 16kB Flash 10-bit/21-ch ADC LQFP32
o C8051F330	48271	MCU 8kB Flash 10-bit/16-ch ADC MLP20
o C8051F350-GQ	49516	MCU 8kB Flash 24-bit/8-ch ADC LQFP32

SILABS (CYGNAL) Microprocessor Overview



Part No.	MIPS (peak)	Flash	RAM Bytes	Ext Mem I/F	Dig I/O	Serial Buses	ADC 1	Other Analog	Package
C8051F000	20	32KB	256	-	32	UART, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F001	20	32KB	256	-	16	UART, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F002	20	32KB	256	-	8	UART, SMBus, SPI	12-bit, 4ch., 100ksps	VREF, comparator	32-pin9x9 LQFP
C8051F005	25	32KB	2304	-	32	UART, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F006	25	32KB	2304	-	16	UART, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F007	25	32KB	2304	-	8	UART, SMBus, SPI	12-bit, 4ch., 100ksps	VREF, comparator	32-pin9x9 LQFP
C8051F010	20	32KB	256	-	32	UART, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F011	20	32KB	256	-	16	UART, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F012	20	32KB	256	-	8	UART, SMBus, SPI	10-bit, 4ch., 100ksps	VREF, comparator	32-pin9x9 LQFP
C8051F015	25	32KB	2304	-	32	UART, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F016	25	32KB	2304	-	16	UART, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F018	25	16KB	1280	-	32	UART, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F019	25	16KB	1280	-	16	UART, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F020	25	64KB	4352	Y	64	2 UARTs, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	100-pin16x16 TQFP
C8051F021	25	64KB	4352	Y	32	2 UARTs, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F022	25	64KB	4352	Y	64	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	100-pin16x16 TQFP
C8051F023	25	64KB	4352	Y	32	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F040	25	64KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	12-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	100-pin16x16 TQFP
C8051F041	25	64KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	12-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	64-pin12x12 TQFP
C8051F042	25	64KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	10-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	100-pin16x16 TQFP
C8051F043	25	64KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	10-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	64-pin12x12 TQFP
C8051F044	25	64KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	10-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	100-pin16x16 TQFP
C8051F045	25	64KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	10-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	64-pin12x12 TQFP
C8051F046	25	32KB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	10-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	100-pin16x16 TQFP
C8051F047	25	32KB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	10-bit, 13ch., 100ksps	60V PGA, VREF, 3 comparators	64-pin12x12 TQFP
C8051F060	25	64KB	4352	Y	59	CAN2.0B, 2 UARTs, SMBus, SPI	16-bit, 1ch., 1Msps	10-bit, 8ch., 200ksps, VREF, 3 comp	100-pin16x16 TQFP
C8051F061	25	64KB	4352	-	24	CAN2.0B, 2 UARTs, SMBus, SPI	16-bit, 1ch., 1Msps	10-bit, 8ch., 200ksps, VREF, 3 comp	64-pin12x12 TQFP
C8051F062	25	64KB	4352	Y	59	CAN2.0B, 2 UARTs, SMBus, SPI	16-bit, 1ch., 1Msps	10-bit, 8ch., 200ksps, VREF, 3 comp	100-pin16x16 TQFP
C8051F063	25	64KB	4352	-	24	CAN2.0B, 2 UARTs, SMBus, SPI	16-bit, 1ch., 1Msps	10-bit, 8ch., 200ksps, VREF, 3 comp	64-pin12x12 TQFP
C8051F064	25	64KB	4352	Y	59	2 UARTs, SMBus, SPI	16-bit, 1ch., 1Msps	VREF, 3 comparators	100-pin16x16 TQFP
C8051F066	25	32KB	4352	Y	59	2 UARTs, SMBus, SPI	16-bit, 1ch., 1Msps	PGA, VREF, comparator	100-pin16x16 TQFP
C8051F067	25	32KB	4352	-	24	2 UARTs, SMBus, SPI	16-bit, 1ch., 1Msps	PGA, VREF, comparator	64-pin12x12 TQFP
C8051F120	100	128KB	8448	Y	64	2 UARTs, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	100-pin16x16 TQFP
C8051F121	100	128KB	8448	Y	32	2 UARTs, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F122	100	128KB	8448	Y	64	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	100-pin16x16 TQFP
C8051F123	100	128KB	8448	Y	32	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F124	50	128KB	8448	Y	64	2 UARTs, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	100-pin16x16 TQFP
C8051F125	50	128KB	8448	Y	32	2 UARTs, SMBus, SPI	12-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP
C8051F126	50	128KB	8448	Y	64	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	100-pin16x16 TQFP
C8051F127	50	128KB	8448	Y	32	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	VREF, 2 comparators	64-pin12x12 TQFP

SILABS (CYGNAL) Microprocessor Overview

Part No.	MIPS (peak)	Flash	RAM Bytes	Ext Mem I/F	Dig I/O	Serial Buses	ADC 1	Other Analog	Package
C8051F130	100	128KB	8448	Y	64	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	16x16 MAC	100-pin16x16 TQFP
C8051F131	100	128KB	8448	Y	32	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	16X16 MAC	64-pin12x12 TQFP
C8051F132	100	64KB	8448	Y	64	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	16X16 MAC	100-pin16x16 TQFP
C8051F133	100	64KB	8448	Y	32	2 UARTs, SMBus, SPI	10-bit, 8ch., 100ksps	16X16 MAC	64-pin12x12 TQFP
C8051F206	25	8KB	1280	-	32	UART, SPI	12-bit, 32ch., 100ksps	2 comparators	48-pin9x9 TQFP
C8051F220	25	8KB	256	-	32	UART, SPI	8-bit, 32ch., 100ksps	2 comparators	48-pin9x9 TQFP
C8051F221	25	8KB	256	-	22	UART, SPI	8-bit, 32ch., 100ksps	2 comparators	32-pin9x9 LQFP
C8051F226	25	8KB	1280	-	32	UART, SPI	8-bit, 32ch., 100ksps	2 comparators	48-pin9x9 TQFP
C8051F230	25	8KB	256	-	32	UART, SPI	-	2 comparators	48-pin9x9 TQFP
C8051F236	25	8KB	1280	-	32	UART, SPI	-	2 comparators	48-pin9x9 TQFP
C8051F300	25	8KB	256	-	8	UART, SMBus	8-bit, 8ch., 500ksps	comparator	11-pin3x3 QFN
C8051F301	25	8KB	256	-	8	UART, SMBus	-	comparator	11-pin3x3 QFN
C8051F302	25	8KB	256	-	8	UART, SMBus	8-bit, 8ch., 500ksps	comparator	11-pin3x3 QFN
C8051F303	25	8KB	256	-	8	UART, SMBus	-	comparator	11-pin3x3 QFN
C8051F304	25	4KB	256	-	8	UART, SMBus	-	comparator	11-pin3x3 QFN
C8051F305	25	2KB	256	-	8	UART, SMBus	-	comparator	11-pin3x3 QFN
C8051F310	25	16KB	1280	-	29	UART, SMBus, SPI	10-bit, 21ch., 200ksps	2 comparators	32-pin9x9 LQFP
C8051F311	25	16KB	1280	-	25	UART, SMBus, SPI	10-bit, 17ch., 200ksps	2 comparators	28-pin5x5 QFN
C8051F312	25	8KB	1280	-	29	UART, SMBus, SPI	10-bit, 21ch., 200ksps	2 comparators	32-pin9x9 LQFP
C8051F313	25	8KB	1280	-	25	UART, SMBus, SPI	10-bit, 17ch., 200ksps	2 comparators	28-pin5x5 QFN
C8051F315	25	8KB	1280	-	25	UART, SMBus, SPI	-	2 comparators	28-pin5x5 QFN
C8051F316	25	16KB	1280	-	21	UART, SMBus, SPI	10-bit, 13ch., 200ksps	2 comparators	24-pin 4x4 QFN
C8051F317	25	16KB	1280	-	21	UART, SMBus, SPI	-	2 comparators	24-pin 4x4 QFN
C8051F320	25	16KB	2304	-	25	USB 2.0, UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	32-pin9x9 LQFP
C8051F321	25	16KB	2304	-	21	USB 2.0, UART, SMBus, SPI	10-bit, 13ch., 200ksps	VREF, 2 comparators	28-pin5x5 QFN
C8051F326	25	16KB	1536	-	15	USB 2.0, UART	-	Separate I/O Supply Pin	28-pin5x5 QFN
C8051F330	25	8KB	768	-	17	UART, SMBus, SPI	10-bit, 16ch., 200ksps	VREF, comparator	20-pin4x4 QFN
C8051F330D	25	8KB	768	-	17	UART, SMBus, SPI	10-bit, 16ch., 200ksps	VREF, comparator	20-pin4x4 DIP
C8051F331	25	8KB	768	-	17	UART, SMBus, SPI	-	comparator	20-pin4x4 QFN
C8051F332	25	4KB	768	-	17	UART, SMBus, SPI	10-bit, 16ch., 200ksps	VREF, comparator	20-pin4x4 QFN
C8051F333	25	4KB	768	-	17	UART, SMBus, SPI	-	comparator	20-pin4x4 QFN
C8051F334	25	2KB	768	-	17	UART, SMBus, SPI	10-bit, 16ch., 200ksps	VREF, comparator	20-pin4x4 QFN
C8051F340	48	64KB	5376	Y	40	USB 2.0, 2x UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F341	48	32KB	3328	Y	40	USB 2.0, 2x UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F342	48	64KB	5376	-	25	USB 2.0, UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	32-pin9x9 LQFP
C8051F343	48	32KB	3328	-	25	USB 2.0, UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	32-pin9x9 LQFP
C8051F344	25	64KB	5376	Y	40	USB 2.0, 2x UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F345	25	32KB	3328	Y	40	USB 2.0, 2x UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	48-pin9x9 TQFP
C8051F346	25	64KB	5376	-	25	USB 2.0, UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	32-pin9x9 LQFP
C8051F347	25	32KB	3328	-	25	USB 2.0, UART, SMBus, SPI	10-bit, 17ch., 200ksps	VREF, 2 comparators	32-pin9x9 LQFP
C8051F350	50	8KB	768	-	17	UART, SMBus, SPI	24-bit, 8ch., 1ksps	PGA, VREF, comparator	32-pin9x9 LQFP
C8051F351	50	8KB	768	-	17	UART, SMBus, SPI	24-bit, 8ch., 1ksps	PGA, VREF, comparator	28-pin5x5 QFN
C8051F352	50	8KB	768	-	17	UART, SMBus, SPI	16-bit, 8ch., 1ksps	PGA, VREF, comparator	32-pin9x9 LQFP
C8051F353	50	8KB	768	-	17	UART, SMBus, SPI	16-bit, 8ch., 1ksps	PGA, VREF, comparator	28-pin5x5 QFN
C8051F410	50	32KB	2304	-	24	UART, SMBus, SPI	12-bit, 20ch., 200ksps	VREF, 2 comparators, Volt Reg, RTC	32-pin9x9 LQFP
C8051F411	50	32KB	2304	-	20	UART, SMBus, SPI	12-bit, 20ch., 200ksps	VREF, 2 comparators, Volt Reg, RTC	28-pin5x5 QFN
C8051F412	50	16KB	1280	-	24	UART, SMBus, SPI	12-bit, 20ch., 200ksps	VREF, 2 comparators, Volt Reg, RTC	32-pin9x9 LQFP
C8051F413	50	16KB	1280	-	20	UART, SMBus, SPI	12-bit, 20ch., 200ksps	VREF, 2 comparators, Volt Reg, RTC	28-pin5x5 QFN
CP2101	-	12B EE	1000	-	13	UART to USB Bridge	-	Volt Reg	28-pin 5x5 QFN
CP2102	-	24B EE	1000	-	13	UART to USB Bridge	-	Volt Reg	28-pin 5x5 QFN
CP2103	-	24B EE	1000	-	13	UART to USB Bridge	-	Volt Reg	28-pin 5x5 QFN

Integrated Circuits

SILABS (CYGNAL) Development kits

Part No.	Ord. No.	Description
o C8051F005DK	48091	Development kit for SILABS uP C8051F005
o C8051F060DK	63438	Development kit for CYGNAL uP C8051F060
o C8051F120DK	55324	Development kit for SILABS uP C8051F120-133
o C8051F124DK	48336	Development kit for SILABS uP C8051F124-127
o C8051F330DK	49511	Development kit for SILABS uP C8051F330
o C8051F350DK	49515	Development kit for SILABS uP C8051F350
o C8051EC2 JTAG	50211	Serial Adapter for SILABS DK



8051 Series - ANALOG DEVICES



Part No.	Ord. No.	Description
o ADuC 812 BSZ	7126	MCU 8kB Flash 8-ch/12-bit ADC 12-bit DAC PQFP52
o ADuC 814 ARUZ	53110	MCU 8kB Flash 8-ch/12-bit ADC 12-bit DAC TSSOP28

8051 Series - DALLAS SEMICONDUCTOR



Part No.	Ord. No.	Description
o DS 5000 FP-16	48030	MCU s NV-RAM QFP80
o DS 80 C 320 ECG	5859	MCU 3xTimer 33MHz TQFP44
s DS 80 C 320 MCG	2286	MCU 3xTimer 33MHz DIP40
o DS 80 C 320 MCL	9340	Processor DALLAS DIL40
o DS 80 C 320+QNG	8806	MCU 3xTimer 33MHz PLCC44
o DS 80 C 390-QCR	7887	MCU 2xCAN2.0 40MHz 4kB SRAM PLCC68
o DS 80 C 400-FNY	52220	MCU LAN MAC 8051 LQFP100
o DS 87 C 530 QNL	48727	MCU 33MHz Industrial PLCC52
o DS 89 C 430 QNL	48559	MCU 16kB Flash Industrial PLCC44
o DS 89 C 440 QNL	48562	MCU 32kB Flash Industrial PLCC44
o DS 89 C 450 MNL	48564	MCU 64kB Flash Industrial DIL40
o DS 89 C 450 QNL	48566	MCU 64kB Flash Industrial PLCC44

8051 Series -NXP



Part No.	Ord. No.	Description
o P 89 LPC 901 FD.512	50995	MCU 1kB Flash 128B RAM SO8
o P 89 LPC 901 FN.129	50996	MCU 1kB Flash 128B RAM DIP8
o P 89 LPC 902 FD.512	50997	MCU 1kB Flash 128B RAM SO8
o P 89 LPC 902 FN.129	50998	MCU 1kB Flash 128B RAM DIP8
o P 89 LPC 903 FD.512	50999	MCU 1kB Flash 128B RAM UART SO8
o P 89 LPC 932 BA.529	51000	MCU 8kB Flash 768B RAM PLCC28
s PCB 80 C 552 WP =P80C552-EBA	24789	MCU 10bit ADC PWM PLCC68
s PCF 80 C 552-5-16 WP=P80C552-EFA	37613	MCU 10bit ADC PWM -40+85°C PLCC68



RISC Series - ATMEL AVR

Part No.	Ord. No.	Description
S AT 90 CAN 128-16AU	56014	MCU AVR 8-bit 128k Flash TQFP64
S AT MEGA 128-16AU	43572	MCU 5V 128K Flash 16MHz TQFP64
S AT MEGA 128L-8AU	43087	MCU 2,7-5,5V 128K Flash 8MHz TQFP64
S AT MEGA 16-16AU	43569	MCU 5V 16K Flash 16MHz TQFP44
S AT MEGA 16-16PU	43567	MCU 5V 16K Flash 16MHz DIP40
S AT MEGA 162-16AU	45874	MCU 2,7-5,5V 16K Flash 16MHz TQFP44
S AT MEGA 162-16PU	45972	MCU 2,7-5,5V 16K Flash 16MHz DIP40
O AT MEGA 162L-8AI	45973	MCU 2,7-5,5V 16K Flash 8MHz TQFP44
O AT MEGA 162V-8AU	48349	MCU 1,8-5,5V 16K Flash 8MHz QFP44
O AT MEGA 162V-8MU	42471	MCU 2,7-5,5V 16kB Flash 8MHz MLF44
O AT MEGA 162V-8PU	48348	MCU 1,8-5,5V 16K Flash 8MHz DIP40
S AT MEGA 168-20AU	51773	MCU 2,7-5,5V 16kB Flash 20MHz TQFP32
O AT MEGA 168-20PU	51774	MCU 2,7-5,5V 16kB Flash 20MHz DIP28
S AT MEGA 16L-8AU	43570	MCU 2,7-5,5V 16K Flash 8MHz TQFP44
O AT MEGA 16L-8PU	43568	MCU 2,7-5,5V 16K Flash 8MHz DIP40
S AT MEGA 2560-16AU	53233	MCU 256KFlash/4kBEE 16MHz TQFP100
S AT MEGA 32-16AU	45177	MCU 5V 32K Flash 16MHz TQFP44
O AT MEGA 32-16PU	45969	MCU 5V 32K Flash 16MHz DIP40
S AT MEGA 32L-8AU	45178	MCU 2,7-5,5V 32K Flash 16MHz TQFP44
S AT MEGA 32L-8PU	45176	MCU 2,7-5,5V 32K Flash 16MHz DIP40
O AT MEGA 48-20AU	48664	MCU 2,7-5,5V 4kB Flash 20MHz TQFP32
O AT MEGA 48-20PU	48666	MCU 2,7-5,5V 4kB Flash 20MHz PDIP28
S AT MEGA 64-16 AU	42702	MCU 5V 64K Flash 16MHz TQFP64
O AT MEGA 64L-8AU	45974	MCU 2,7-5,5V 64K Flash 8MHz TQFP64
S AT MEGA 8-16AU	43565	MCU 5V 8K Flash 16MHz TQFP32
S AT MEGA 8-16PU	43148	MCU 5V 8K Flash 16MHz DIP28
S AT MEGA 8515-16AU	49184	MCU 5V 8K Flash 16MHz TQFP44
S AT MEGA 8515-16JU	43586	MCU 5V 8K Flash 16MHz PLCC44
S AT MEGA 8515-16PU	43584	MCU 5V 8K Flash 16MHz DIP40
O AT MEGA 8515L-8JU	43587	MCU 2,7-5,5V 8K Flash 8MHz PLCC44
O AT MEGA 8515L-8PU	43585	MCU 2,7-5,5V 8K Flash 8MHz DIP40
S AT MEGA 8535-16PU	45172	MCU 5V 8K Flash 16MHz DIP40
O AT MEGA 8535L-8JI	45175	MCU 2,7-5,5V 8K Flash 8MHz PLCC44
S AT MEGA 8535L-8PU	45173	MCU 2,7-5,5V 8K Flash 8MHz DIP40
S AT MEGA 88-20AU	51779	MCU 2,7-5,5V 8k Flash 20MHz TQFP32
S AT MEGA 88-20PU	51782	MCU 2,7-5,5V 8k Flash 20MHz DIP28
S AT MEGA 8L-8AU	43566	MCU 2,7-5,5V 8K Flash 8MHz TQFP32
O AT MEGA 8L-8MU	48374	MCU 2,7-5,5V 8K Flash 8MHz MLF32
S AT MEGA 8L-8PU	43564	MCU 2,7-5,5V 8K Flash 8MHz DIP28
O AT TINY 11-6PI	43588	MCU 5V 1K Flash 6MHz DIP8
O AT TINY 11-6SI	43590	MCU 5V 1K Flash 6MHz SOIC8
O AT TINY 11L-2PI	43589	MCU 2,7-5,5V 1K Flash 2MHz DIP8
O AT TINY 11L-2SI	43591	MCU 2,7-5,5V 1K Flash 2MHz SOIC8
O AT TINY 12L-4PI	43592	MCU 2,7-5,5V 1K Flash 4MHz DIP8
O AT TINY 12L-4SI	9486	MCU 2,7-5,5V 1K Flash 4MHz SOIC8
O AT TINY 12V-1PI	43890	MCU 1K Flash 1,8V 1,2MHz -40°C DIP8
O AT TINY 12V-1SI	43934	MCU 1K Flash 1,8V 1,2MHz -40°C SO8
S AT TINY 13-20PU	48647	MCU 2,7-5,5V 1K ISP Flash 20MHz DIP8
S AT TINY 13-20SU	48648	MCU 2,7-5,5V 1K Flash 20MHz SO8 width 0,209"
S AT TINY 15L-1PI	9569	MCU 2,7-5,5V 1K Flash 1MHz DIP8
O AT TINY 15L-1SI	42953	MCU 2,7-5,5V 1K Flash 1MHz SO8
S AT TINY 2313-20PU	48649	MCU 2,7-5,5V 2K ISP Flash 20MHz DIP20
S AT TINY 2313-20SU	48650	MCU 2,7-5,5V 2K ISP Flash 20MHz SO20
O AT TINY 2313V-10PU	52016	MCU 1,8-5,5V 2K Flash 10MHz DIP20
O AT TINY 2313V-10SU	55653	MCU 1,8-5,5V 2K Flash 10MHz SO20
O AT TINY 26-16PU	44831	MCU 2kB Flash ADC 11-channels DIP20
O AT TINY 26-16SU	54065	MCU 2kB Flash ADC 11-channels SO20

ATMEL Development Kits

AT AVR ISP mk II.



AVR® In-System Programmer mkII is used for field upgrades of AVR Flash microcontrollers. The AVRISP mkII combined with AVR Studio® can program new AVR 8-bit RISC microcontrollers with ISP Interface.

Part No.	Ord. No.
S AT AVR ISP mkII	55355

AVR - JTAG ICE mk II.



The AVR® JTAGICE mkII from Atmel® is a powerful development tool for On-chip Debugging of all AVR 8-bit RISC MCUs and AVR32 32-bit DSP/MCUs with IEEE 1149.1 compliant JTAG interface.

Part No.	Ord. No.
O AVR JTAG ICE-MKII	50387

AVR - JTAG ICE USB



AVR-USB-JTAG (complete analog of ATMEL's AVR JTAG ICE) is development tool for programming, real time emulation and debugging for AVR microcontrollers with JTAG interface (ATmega16, ATmega32, ATmega323, ATmega162, ATmega169, ATmega128 and all other future to come). AVR-USB-JTAG have: JTAG 10 pin connector (Atmel layout), status LED, USB Part No. A connector.

Part No.	Ord. No.
S AVR-JTAG ICE USB	57760

AVR - Dragon



The AVR Dragon sets a new standard for low cost development tools. AVR Dragon supports all programming modes for the AVR device family. It also includes complete emulation support for devices with 32kB or less Flash memory.

- Programming Interfaces
- In-System Programming
 - High Voltage Serial Programming
 - Parallel Programming
 - JTAG Programming
- Emulation Interfaces
- JTAG
 - debugWIRE

The AVR Dragon is USB powered and is capable of sourcing an external target. A protoPart No. area allows simple programming and debugging.

Part No.	Ord. No.
S AVR Dragon	60646

AVR - CODE VISION STANDARD



IC Compiler, IDE, Automatic Program Generator and ISP for the AVR microcontrollers with internal RAM
www.hpinfotech.ro

Part No.	Ord. No.
O AVR CODE VISION STANDARD	48771

STK 500



The Atmel AVR® STK500 is a starter kit and development system for Atmel's AVR Flash microcontrollers. The STK500 gives designers a quick start to develop code on the AVR combined with features for using the starter kit to develop protoPart No.s and test new designs. The STK500 interfaces with AVR Studio®, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

Part No.	Ord. No.
S STK 500	8148

STK 501



Socket adaptor TQFP64 for development kit STK 500

Part No.	Ord. No.
O STK 501	9250

STK 600



The Atmel AVR® STK600 is a complete starter kit and development system for the AVR and AVR32 flash microcontrollers from ATMEL Corporation. STK600 is shipped with a ATmega2560 device board.

Part No.	Ord. No.
S STK 600	67852

Socket converters for STK 600



Socket converters for development kit STK 600.

Part No.	Ord. No.
O STK 600-DIP40	67951
O STK 600-SOIC	67952
O STK 600-TQFP100	67953
O STK 600-TQFP32	67954
O STK 600-TQFP64	67955

RISC Series

Part No.	Ord. No.	Description
o PIC 10 F 200T-I/OT	50937	MCU 256B Flash, ICSP, 4MHz SOT23/6
s PIC 12 C 508 A-04/P	7018	MCU 4MHz 512x12 NO EEPROM 25B RAM DIP8
o PIC 12 C 508 A-04/SM	7806	MCU 4MHz 512x12 OTP 25B RAM SO8
s PIC 12 C 509 A-04/P	7019	MCU 4MHz 1kx12 NO EEPROM 41B RAM DIP8
o PIC 12 C 509 A-04/SM	9401	MCU 4MHz 1024x12 OTP 41B RAM SO8
o PIC 12 F 508 I/SN	53890	MCU Flash 768B SO8
s PIC 12 F 508-I/P	50938	MCU 512B Flash 4MHz DIP8
s PIC 12 F 629-I/P	45190	MCU 1024x14 Flash 64B RAM 6 I/O DIP8
s PIC 12 F 629-I/SN	47129	MCU 1024x14 EEPROM 20MHz SO8
s PIC 12 F 675-I/P	45191	MCU 1024x14 Flash 64B RAM 6 I/O 4xADC DIP8
s PIC 16 C 54 C-04/P	2209	MCU 4MHz 512x12 OTP 25B RAM DIP18
o PIC 16 C 54 HS/P	43707	MCU 20MHz 512x12 OTP QUARZ DIP18
o PIC 16 C 54 RCI/P	2395	MCU 4MHz OTP PDIP18
o PIC 16 C 54 XT/P	43708	MCU 4MHz 512x12 OTP QUARZ DIP18
o PIC 16 C 55 RC/P	2213	MCU 4MHz 512x12 OTP 24B RAM DIP28
o PIC 16 C 55 XTI/P	47321	MCU 20MHz 512x12 OTP 24 RAM DIP28
o PIC 16 C 558-04I/P	9402	MCU 20MHz 2048x14 OTP 128B RAM DIP18
s PIC 16 C 65 B-04/L	2957	MCU 4MHz 4096x14 OTP 192B RAM PLCC44
o PIC 16 C 65 B-20I/P	7103	MCU 20MHz 4096x14 OTP 192B RAM DIP40
s PIC 16 C 711-04/P	7211	MCU 4MHz 1024x14 OTP 36B RAM 4xADC DIP18
o PIC 16 C 74 B-04I/P	43144	MCU 4k OTP 33I/O PWM I2C PLCC44
o PIC 16 F 54 I/P	50939	MCU 4MHz 512x12 Flash DIP18
s PIC 16 F 628-20/P	9161	MCU 2k Flash DIP18
o PIC 16 F 628-20/SO	43700	MCU 20MHz 2k FlashEPROM SO18
s PIC 16 F 628A-I/P	51315	MCU 20MHz 2k Flash EPROM DIP18
o PIC 16 F 628A-I/SO	52692	MCU 8bit 2k Flash SO18
o PIC 16 F 73-I/SP	8876	MCU 4k 22IO AD SDIP28
o PIC 16 F 74-I/P	5476	MCU 20MHz 4k Flash DIP40
o PIC 16 F 818-I/P	48274	MCU 20MHz 1024x14Flash EPROM 5x10bit A/D DIP18
o PIC 16 F 818-I/SO	69395	CPU 20MHz 1024x14Flash EPROM 5x10bit A/D SO18
s PIC 16 F 84 A-04/P	7374	MCU 4MHz 1024x14 Flash 64B RAM DIP18
s PIC 16 F 84 A-20/P #70660	5512	MCU 20MHz 1024x14 Flash 68B RAM DIP18
o PIC 16 F 84-04/SO	4659	MCU 4MHz 1024x14 Flash 64B RAM SO18
o PIC 16 F 84-10/P	43596	MCU Flash 4IRQ 13I/O DIP18
o PIC 16 F 872-I/SP	43616	MCU 20MHz 2k Flash SDIP28
o PIC 16 F 873-04/SP	43618	MCU 4MHz 4K Flash SDIP28
o PIC 16 F 873A-I/SO	49382	MCU 20MHz 4K Flash I2C/SPI PWM SO28
o PIC 16 F 874-04/P	43622	MCU 4MHz 4k Flash DIP40
o PIC 16 F 874-20/P	43623	MCU 20MHz 4k Flash DIP40
s PIC 16 F 876-04/SP	9268	MCU 4MHz 8k Flash PWM 10bit-A/DC SDIP28
o PIC 16 F 876-20/SO	43630	MCU 20MHz 8k Flash SO28
s PIC 16 F 876-20/SP=A-I/SP	43626	MCU 20MHz 8k Flash SDIP28
s PIC 16 F 877A-I/P	43631	MCU 20MHz 8k Flash DIP40
o PIC 16 LF 84 A-04/P	7385	MCU 4MHz 1024x14 Flash 68B RAM DIP18
o PIC 18 C 452/JW	8681	MCU 16Kx16 UV-EPROM CDIP40
o PIC 18 F 252-I/SP	49914	MCU 40MHz 16Kx16 Flash SDIP28
o PIC 18 F 452-I/L	5480	MCU 16Kx16 FLASH 34I/O PLCC44
o PIC 18 F 458-I/P	45192	MCU 40MHz 16Kx16 Flash 34I/O CAN DIP40

PICKIT 2



Microchip's PICKIT2 Starter Kit is a low-cost development kit with an easy to use interface for programming the Flash family of PIC microcontrollers. Code development and debugging is performed using Microchip's MPLAB Integrated Development Environment (IDE). The PICKIT 2 Starter Kit connects to a personal computer via USB.

Part No.	Ord. No.
s PICKIT2	55989

RISC Series - MOTOROLA



Part No.	Ord. No.	Description
o MC 68 HC 11 A1 CFN3=E1CFNE3	3613	MCU 8kB ROM PLCC52
o MC 68 HC 11 E1CFNE2	40643	MCU EEPROM 512B PLCC52
o MC 68 HC 11 F1 CFN4	49381	MCU 1kB RAM ADC PLCC68
o MC 68 HC 908 QT4 CP	48831	MCU 4kB Flash ADC DIP8

RISC Series - CYPRESS



Part No.	Ord. No.	Description
o CY7C53120E4-40SXI	54902	Neuron Chip for Lon Works TQFP64
o CY7C53150-20AXI	48096	Neuron Chip for Lon Works TQFP64
o CY8C27143-24PXI	49115	MCU PSoC 16kB Flash ISP DIP8
o CY8C27443-24PXI	49173	MCU PSoC 16kB Flash ISP SDIP28
o CY8C27443-24PXI	53657	MCU PSoC 16kB Flash ISP SDIP28
o CY8C27443-24SXI	49175	MCU PSoC 16kB Flash ISP SO28
o CY8C29466-24PXI	52691	MCU PSoC 32kB Flash ISP DIP28
o CY8C29466-24SXI	61326	MCU PSoC 32kB Flash ISP SO28

16/32-bit Microprocessors

TEXAS INSTRUMENTS Series



Part No.	Ord. No.	Description
o MSP 430 F 1491PM	48928	MCU 16-bit, 60kB Flash, 2k RAM, 12-bit ADC TQFP64
o MSP 430 F 4351PZ	48870	MCU 16-bit 16kB Flash 12-bit ADC, 1,8-3,6V LQFP
o MSP 430 F 4491PZ	52672	MCU 16-bit, 60kB Flash, 2kRAM, 12-bit ADC IQFP100

MSP 430 microprocessors overview

Device Name	OTP/FLASH/ROM/EPROM (kB)	RAM (bytes)	ADC	LCD Segments	Capture/Compare plus Timer	UART	Hardware Multiplier	No. of Timers	Package	Price*	Description
Flash											
MSP430F110	1	128	slope		Yes	software	No	2	SOIC,TSSOP	1.04	16-Bit Ultra-Low-Power Microcontroller, 1kB Flash, 128B RAM
MSP430F1101	1	128	slope		Yes	software	No	2	SOIC,TSSOP	1.04	16-Bit Ultra-Low-Power Microcontroller, 1kB Flash, 128B RAM, Comparator
MSP430F112	4	256	slope		Yes	software	No	2	SOIC,TSSOP	1.74	16-Bit Ultra-Low-Power Microcontroller, 4kB Flash, 256B RAM
MSP430F1121	4	256	slope		Yes	software	No	2	SOIC,TSSOP	1.74	16-Bit Ultra-Low-Power Microcontroller, 4kB Flash, 256B RAM, Comparator
MSP430F122	4	256	slope		Yes	hardware	No	2	SOIC,TSSOP	2.40	16-Bit Ultra-Low-Power Microcontroller, 4kB Flash, 256B RAM, USART, Comparator, 22 I/Os
MSP430F123	8	256	slope		Yes	hardware	No	2	SOIC,TSSOP	2.51	16-Bit Ultra-Low-Power Microcontroller, 8kB Flash, 256B RAM, USART, Comparator, 22 I/Os
MSP430F133	8	256	12 bit		Yes (x2)	hardware	No	3	QFP	2.95	16-Bit Ultra-Low-Power Microcontroller, 8kB Flash, 256B RAM, 12 bit ADC, USART
MSP430F135	16	512	12 bit		Yes (x2)	hardware	No	3	QFP	3.55	16-Bit Ultra-Low-Power Microcontroller, 16kB Flash, 512B RAM, 12 bit ADC, USART
MSP430F147	32	1024	12 bit		Yes (x2)	hardware	Yes	3	QFP	4.95	16-Bit Ultra-Low-Power Microcontroller, 32 kB Flash, 1KB RAM, 12 bit ADC, 2 USARTs, HW multiplier
MSP430F148	48	2048	12 bit		Yes (x2)	hardware	Yes	3	QFP	5.65	16-Bit Ultra-Low-Power Microcontroller, 48 kB Flash, 2KB RAM, 12 bit ADC, 2 USARTs, HW multiplier
MSP430F149	60	2048	12 bit		Yes (x2)	hardware	Yes	3	QFP	5.96	16-Bit Ultra-Low-Power Microcontroller, 60 kB Flash, 2KB RAM, 12 bit ADC, 2 USARTs, HW multiplier
MSP430F412	4	256	slope	96	Yes	software	No	3	QFP	2.71	16-Bit Ultra-Low-Power Microcontroller, 4kB Flash, 256B RAM, 96 segment LCD, Comparator
MSP430F413	8	256	slope	96	Yes	software	No	3	QFP	2.90	16-Bit Ultra-Low-Power Microcontroller, 8kB Flash, 256B RAM, 96 segment LCD, Comparator

* Budgetary price per unit in U.S. dollars, lots of 1,000+

** Budgetary price per unit in U.S. dollars, lots of 1 unit

AT91SAM ARM7 Series



Part No.	Ord. No.	Description
o AT 91 SAM 7S128-AU	51958	MCU ARM7 128kB Flash LQFP64
s AT 91 SAM 7S256-AU	51959	MCU ARM7 256kB Flash LQFP64
o AT 91 SAM 7S32-AU	51957	MCU ARM7 32kB Flash LQFP48
s AT 91 SAM 7S64-AU	51918	MCU ARM7 64kB Flash LQFP64
o AT 91 SAM 7X256-AU	55228	MCU ARM7 256kB Flash LQFP100

Development kit AT 91SAM7S-EK



Development kit AT91SAM7S-EK with AT91SAM7S.



Part No.	Ord. No.
o AT 91 SAM 7S-EK	54803

16/32-bit Microprocessors (continued)

STM32 CORTEX M3 ARM7 Series



Part No.	Ord. No.	Description
o STM32 F 103 RBT6	65083	MCU 32-bit CORTEX M3 128kB Flash LQFP64
o STM32F101CBT6	65296	MCU 32-bit CORTEX M3 128kB Flash LQFP48
o STM32F101VBT6	69434	MCU 32-bit CORTEX M3 128kB Flash LQFP100
o STR 711 FR2 T6	55893	MCU ARM7 256+16K Flash USB 30I/O TQFP64

Starter kit ARM7 Cortex M3



The STM32 Primer is fun, innovative evaluation and development tool packages that provides a quick, easy introduction to the features of the STM32 and the powerful ARM Cortex™-M3 core.

STM3210B-PRIMER – STM32 Primer with Raisonance software toolset, preloaded application (GUI, MEMS-based controls, games), CircleOS task scheduler, USB cable and rechargeable battery

Part No.	Ord. No.
s STM3210B-PRIMER	71157

STR7 ARM7 Series



STR7 (ARM) - 32-bit Microcontrollers. The STR7 family of 32-bit microcontrollers combines the industry-standard ARM7TDMI® 32-bit RISC core, featuring high performance, very low power, and very dense code, with a comprehensive set of peripherals and ST's latest 0.18µm embedded Flash technology.



Features:

- Industry standard core ARM7 RISC 32-bit CPU for future-proof microcontrollers that easily adapt to customer requirements
- Extensive software and tool support with the complete STR7 library dramatically reduces development time and increases ease-of-use
- Industrial temperature range (-40°C to + 85 °C and +105°C) and 3.3V or 5.0V native devices provides flexible application options
- The largest choice of on-chip peripherals including up to 3 CAN, USB, SPI, I2C, 4 UART, 20 timers reduces the system cost
- Flexible power and clock management allows full control over power consumption

Part No.	Ord. No.	Description
o STR 711 FR2 T6	55893	MCU ARM7 256+16K Flash USB 30I/O TQFP64

Part number	Program memory type					Prog. (bytes)	RAM (bytes)	Data EPROM (bytes)	A/D inputs	Timer functions			Serial interface	LVD levels	I/Os (high current*)	Package	Supply voltage	Special features
	Flash	OTP	FAST ROM†	ROM	EP ROM					12 or 16-bit (IC/OC/ PWM)	8-bit (IC/OC/ PWM)	Others						
STR7: 32-bit ARM7™ RISC CPU microcontrollers																		
64 pins	STR711FR0	•				64+ 16K	16K		4x12-bit	4x16-bit (5/5/3)		WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/USB	30(0)	TQFP64/LFBGA64	3.0 to 3.6V	16K data Flash	
	STR712FR0	•				64+ 16K	16K		4x12-bit		WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/CAN	32(0)	TQFP64/LFBGA64	3.0 to 3.6V			
	STR715FR0	•				64+ 16K	16K		4x12-bit		WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/CAN	32(0)	TQFP64/LFBGA64	3.0 to 3.6V			
	STR711FR1	•				128+ 16K	32K		4x12-bit		WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/USB	30(0)	TQFP64/LFBGA64	3.0 to 3.6V			
	STR712FR1	•				128+ 16K	32K		4x12-bit		WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/CAN	32(0)	TQFP64/LFBGA64	3.0 to 3.6V			
	STR711FR2	•				256+ 16K	64K		4x12-bit		WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/USB	30(0)	TQFP64/LFBGA64	3.0 to 3.6V			
100 pins	STR731FV0	•				64K	16K		12x10-bit	15x16-bit (12/12/12)	WDG, RTC	3xSPI/2xI ² C/ 4xUART/3xCAN	72(0)	TQFP100	4.5 to 5.5V	16xDMA, on-chip RC oscillator, -40 to 105°C		
	STR736FV0	•				64K	16K		12x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART	72(0)	TQFP100	4.5 to 5.5V			
	STR731FV1	•				128K	16K		12x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART/3xCAN	72(0)	TQFP100	4.5 to 5.5V			
	STR736FV1	•				128K	16K		12x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART	72(0)	TQFP100	4.5 to 5.5V			
	STR731FV2	•				256K	16K		12x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART/3xCAN	72(0)	TQFP100	4.5 to 5.5V			
	STR736FV2	•				256K	16K		12x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART	72(0)	TQFP100	4.5 to 5.5V			
144 pins	STR710FZ1	•				128+ 16K	32K		4x12-bit	19x16-bit (20/20/16)	WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/CAN/USB	48(8)	TQFP144/ LFBGA144	3.0 to 3.6V	EMI, 16K data Flash		
	STR730FZ1	•				128K	16K		16x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART/3xCAN	112(0)	TQFP144/ LFBGA144	4.5 to 5.5V	16xDMA, on-chip RC oscillator, -40 to 105°C		
	STR735FZ1	•				128K	16K		16x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART	112(0)	TQFP144/ LFBGA144	4.5 to 5.5V			
	STR710FZ2	•				256+ 16K	64K		4x12-bit		WDG, RTC	2xSPI/2xI ² C/ 4xUART/HDLC/ SC/CAN/USB	48(8)	TQFP144/ LFBGA144	3.0 to 3.6V	EMI, 16K data Flash		
	STR730FZ2	•				256K	16K		16x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART/3xCAN	112(0)	TQFP144/ LFBGA144	4.5 to 5.5V	16xDMA, on-chip RC oscillator, -40 to 105°C		
	STR735FZ2	•				256K	16K		16x10-bit		WDG, RTC	3xSPI/2xI ² C/ 4xUART	112(0)	TQFP144/ LFBGA144	4.5 to 5.5V			



STR 711-SK/IAR

IAR KickStart Kit™ is a complete evaluation environment; it contains a development board, a JTAG debugger, and a suite of software tools for embedded development. Design, develop, implement and test your applications on STR711 from STMicroelectronics using a single integrated toolkit. From Idea to Target®



ARM-JTAG

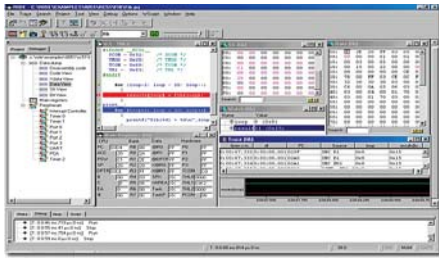
Professional low cost in-circuit programmer and debugger for ARM 32-bits Micro Controllers. The programmer connects to a PC through a standard parallel port interface and draws the necessary power from the target board eliminating the need for an additional power supply. Uses ARM standard 2x10 pin JTAG connector (20cm cable)

Part No.	Ord. No.
s STR 711-SK/IAR	55438

Part No.	Ord. No.
o ARM-JTAG	54800

Software Kits for 8051

RAISONANCE



Part No.	Description
EVAL-51	free version, 4kB limit, download www.raisonance.com
RKitL 51	32kB limit
RCA 51	C compiler, Assembler and Linker
RKitE51	enterprise version without limit

Part No.	Ord. No.
EVAL -51	
o RKitL51 or RKitLXA	47901
o RCA51 or RCAXA	47835
o RkitE51 or RkitEXA	47902

Programmer for uPSD

RAISONANCE

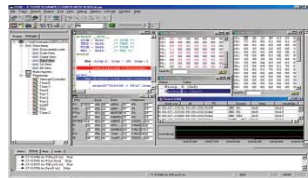


Part No.	Description
RLink-STD	ICD & programmer for uPSD

Part No.	Ord. No.
o RLink-STD	58416

Complete SW and HW Kits for 8051

RAISONANCE

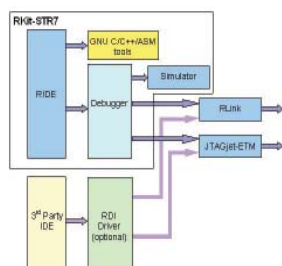


Part No.	Description
RKit51+RLink-STD	uPSD Lite, 32kB limit verziou with ICD & programmer for uPSD
RKitE51+RLink-STD	uPSD Enterprise, complete Enterprise kit with ICD & programmer for uPSD
Compiler Kit	RCA 51 kit + PHYTON ICE
Lite Kit	RKitL51 32kB limit version + PHYTON ICE
Enterprise Kit	RKitE51 Enterprise version + PHYTON ICE

On request

Software kits for STRx

RAISONANCE



Part No.	Description
RKit-STRX	Free compiler without limit, GNU tools, download www.raisonance.com - for STR7
RKit-STRX	Free compiler without limit, GNU tools, download www.raisonance.com - for STR9

Programmers for STRx

RAISONANCE



Part No.	Description
RLink-STD	ICD & programmer for STR7
RLink-STD	ICD & programmer for STR9

Starter Kits

RAISONANCE



Development kit, included REva board, additional boards and RLink ICD & programmer:
STR71x-SK
STR730-SK
STR750-SK
STR91x-SK

On request.

Professional Kits

RAISONANCE



Professional development kit, included REva board, additional boards, RLink Pro professional ICD & programmer and RKit-STRx:
RKitPSTR71x
RKitPSTR73x
RKitPSTR750
RKitPSTR91x

On request.

Additional boards

RAISONANCE



Additional boards, for REva board

On request.

Development kit

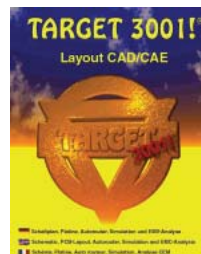
RAISONANCE



Development kit RKit-STRx, JTAGJET-TRACE-ST In-Circuit Emulator, included REva board, and additional boards.
RKitPSTR91x - DK

On request.

TARGET 3001



TARGET3001! design station is an object-oriented, 32-bit schematic- simulation- and printed circuit board development system for the PC. It's a partly automatic tool, that assists you with the drawing of a schematic, the mixed-mode simulation of a circuit and the PCB design with an integrated EMC checking tool.

Part No.	Ord. No.
S TARGET 3001! Professional V14	49182
S TARGET 3001! Economy V14	49181
S TARGET 3001! Design Station for School	49239
S TARGET 3001! Medium V14	71001
S TARGET 3001! Medium V14	71001
S TARGET 3001! Professional for school	51251
S TARGET 3001! Smart V14	48651
S TARGET 3001! Light V14	48280

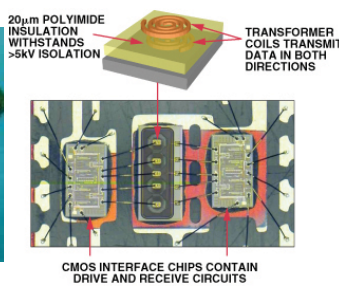
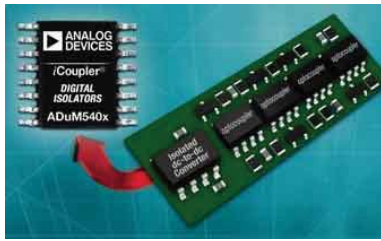
Interfaces

Part No.	Ord. No.	Description
S ADM 202 JNZ	3505	IC RS232, 5V DIP16
S AM 26 LS 31 CN	23568	IC RS422 4xdriver DIP16
S AM 26 LS 32 ACN	23569	IC RS422 4xreceiver DIP16
O CP 2102-GM	53680	Converter USB/RS232 LF MLP28
O DJ LXT 972 ALC.A4	47827	Dual Speed Fast Ethernet Transceiver LQFP64
O LTC 1480 IS8	56920	3.3V Ultralow Power RS485 Transceiver SO8
O LTC 2804 CGN-1	55277	IC RS232 Dual Transceiver 1,8-5,5V SSOP16
S LTC 485 CN 8	30094	IC RS485 Transceiver DIP8
S LTC 485 CS8	29942	IC RS485 Transceiver SO8
O LTC 485 IN 8	30095	IC RS485 Transceiver DIP8
O LTC 491 CS SMD	33154	IC RS485 SO14
O MAX 203 ECPP	12837	IC RS232 ESD 5V DIP20
O MAX 220 CPE	4442	IC RS232, 5V DIP16
S MAX 232 ACPE+	5001	IC RS232 200kb/s 0,1uF DIP16
S MAX 232 ACSE+	7117	IC RS232, 0,1uF SO16 slim
S MAX 232 CPE+	48464	IC RS232, 1uF, 120kb/s DIP16
S MAX 232 CSE+	12772	IC RS232, 1uF, 120kb/s, SO16
S MAX 232 D	7033	IC RS232, 1uF, 120kb/s SO16 slim
S MAX 232 DW	28951	IC RS232, 1uF, 120kb/s SO16 wide
S MAX 232 N	22423	IC RS232, 1uF, 120kb/s DIP16
O MAX 233 CPP+	43834	IC RS232 120KBPS without cap. DIP20
S MAX 3232 CPE+	5696	IC RS232 3,3V DIP16
S MAX 3232 CSE+	5878	IC RS232 3,3V SO16
S MAX 3232 EID	62453	IC RS232 3,3V Ind ESD SO16
O MAX 3232 ESE	47809	IC RS232 3,3V SO16
S MAX 485 CSA+	5003	IC RS485/422 SO8
O MAX 485 EPA	6947	IC RS485/422 Transceiver DIP8
S MC 1489 P = SN75189N	13321	IC 4xLink Receiver DIP14
S SI 9243 AEY-E3	50273	IC Single-Ended Bus Transceiver SO8
S SN 75 LBC 176 D	7789	IC RS485 Transceiver SO8
S SN 75 LBC 176 P	7866	IC RS485 Transceiver DIP8
S SN 75176 BD	26997	IC RS485 Transceiver SO8
S SN 75176 BP	27310	IC RS485 Transceiver DIP8
S ST 232 ABD	48465	IC RS232, 0,1uF SO16 slim
S ST 232 ABN	48466	IC RS232, 0,1uF DIP16
S TJA 1040 T/N1	53810	CAN HS transceiver SO8
O TOIM 4232	8311	IC IrDA-RS232 Interface 3V/5V SO16
O W5100	72288	Ethernet controller TCP/IP, 25Mbps, LQFP80



Analog Devices	ADM 232	ADM 485	ADM 1232	ADM 690	ADM 691
Dallas	DS 232		DS 1232		
Intersil (Harris)	HIN 232				
Linear Technology	LT 1081	LTC 485	LTC 1232	LTC 690	LTC 691
Maxim	MAX 232	MAX 485	MAX 1232	MAX 690	MAX 691
Sipex	SP 232	SP 485			
Texas Instruments	MAX 232	SN75LBC176			
STM	ST 232				

iCoupler Technology



Analog Devices has recently addressed this issue with the introduction of a complete and fully integrated isolation solution involving signal and power transfer across an isolation barrier using microtransformers. This extension to our iCoupler technology, termed isoPower, is a breakthrough alternative. Signal and power within a single component eliminates the need for a bulky, expensive, difficult to design isolated power supply and provides adequate isolation up to 5 kV. It can significantly reduce the total isolation system cost, the board space, and design time. A 2-channel iCoupler device with isoPower is almost 90% smaller and 70% less expensive.

Part No.	Ord. No.	Description
S ADuM 1201 ARZ	56891	IC 2ch Digital Isolator 150ns SO8
O ADuM 1201 BRZ	61083	IC 2ch Digital Isolator 50ns SO8
O ADuM 1301 ARWZ	59607	IC 3ch Digital Isolator SO16
O ADuM 1310 BRWZ	62696	IC 3ch Digital Isolator SO16
O ADuM 1311 ARWZ	62697	IC 3ch Digital Isolator SO16
O ADuM 1400 ARWZ	67540	Digital Isolator 4-channel SO16
O ADuM 1401 ARWZ	59608	IC 4ch Digital Isolator SO16
O ADuM 1402 ARWZ	57789	IC 4ch Digital Isolator SO16
O ADuM 1402 BRWZ	63410	IC 4ch Digital Isolator SO16
S ADuM 1410 ARWZ	62698	IC 4ch Digital Isolator SO16
S ADuM 1412 ARWZ	60968	IC 4ch Digital Isolator SO16
O ADuM 2402 ARWZ	60969	IC 4ch Digital Isolator SO16

Peripherals ICs, I²C BUS

Part No.	Ord. No.	Description
S 16 C 550 CFN	5748	UART & FIFO PLCC 44
O FM 3104-S	48386	Processor companion +FRAM 4Kb SOIC14
O FM 3116-S	48387	Processor companion +FRAM 16Kb SOIC14
O FM 31256-G	48390	Processor companion +FRAM 256Kb SOIC14
O FM 3164-G	48389	Processor companion +FRAM 64Kb SOIC14
S PCA 82 C 250	40249	CAN Transceiver DIP8
S PCA 82 C 250 T SMD	33945	Driver CAN BUS/receiver SO8
S PCF 8574 AP(N)	27368	8-bit I/O port Expander I2C DIP16
S PCF 8574 AT SMD	27357	8-bit I/O port Expander I2C SO16
S PCF 8574 P	23581	8-bit I/O port Expander I2C DIP16
S PCF 8574 T SMD	24794	8-bit I/O port Expander I2C SO16
S PCF 8583 P	23582	I2C clock/calendar SRAM 256x8 DIP8
S PCF 8583 T SMD	24796	I2C clock/calendar SRAM 256x8 SO8(7,5mm)
S PCF 8584 P	36436	I2C BUS controller DIP20



www.ftdichip.com

FTDI Chips

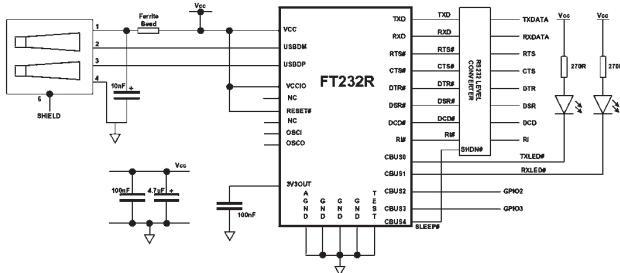
FT232R Series - USB UART IC



The FT232R is a USB to serial UART interface with optional clock generator output, and the new FTDIChip-ID™ security dongle feature. In addition, asynchronous and synchronous bit bang interface modes are available. USB to serial designs using the FT232R have been further simplified by fully integrating the external EEPROM, clock circuit and USB resistors onto the device.

The FT232R adds two new functions compared with its predecessors, effectively making it a „3-in-1“ chip for some application areas. The internally generated clock (6MHz, 12MHz, 24MHz, and 48MHz) can be brought out of the device and used to drive a microcontroller or external logic. A unique number (the FTDIChip-ID™) is burnt into the device during manufacture and is readable over USB, thus forming the basis of a security dongle which can be used to protect customer application software from being copied.

The FT232R is available in two different Pb-free (RoHS compliant) packages - the FT232RL comes in a compact 28-Lead SSOP package and the FT232RQ comes in an ultra-compact 5x5mm QFN-32 package.



Part No.	Description
FT 232 RL-R T&R	IC UART RS232 USB SSOP28
FT 232 RQ-R	IC UART RS232 USB QFN32
FT 232 BL-TR	IC UART RS232 USB LQFP32

Part No.	Ord. No.
S FT 232 RL-R T&R	70931
S FT 232 RQ-R	55231
S FT 232 BL-TR	42415

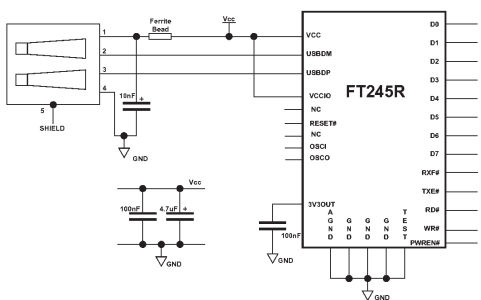
FT245 Series - USB FIFO IC



The FT245R is the latest device to be added to FTDI's range of USB FIFO interface Integrated Circuit Devices. The FT245R is a USB to parallel FIFO interface, with the new FTDIChip-ID™ security dongle feature. In addition, asynchronous and synchronous bit bang interface modes are available. USB to parallel designs using the FT245R have been further simplified by fully integrating the external EEPROM, clock circuit and USB resistors onto the device.

The FT245R adds a new function compared with its predecessors, effectively making it a „2-in-1“ chip for some application areas. A unique number (the FTDI-Chip-ID™) is burnt into the device during manufacture and is readable over USB, thus forming the basis of a security dongle which can be used to protect customer application software from being copied.

The FT245R is available in two different Pb-free (RoHS compliant) packages - the FT245RL comes in a compact 28-Lead SSOP package and the FT245RQ comes in an ultra-compact 5x5mm QFN-32 package.



Part No.	Description
FT 245 RL-R T&R	IO USB FIFO SSOP28
FT 245 RQ	USB/parallel port QFN32
FT 245 BL T&R	IC USB FIFO LQFP32

Part No.	Ord. No.
S FT 245 RL-R T&R	70390
S FT 245 RQ	55232
S FT 245 BL T&R	42416

FT2232 D Series Dual USB UART/FIFO IC

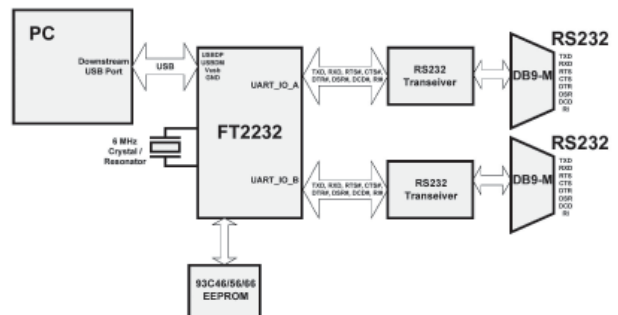


The FT2232D is an updated version of FTDI's 3rd generation USB UART/FIFO I.C. family. This device features two Multi-Purpose UART/FIFO controllers which can be configured individually in several different modes. As well as a UART interface, FIFO interface and Bit-Bang IO modes of the 2nd generation FT232BM and FT245BM devices, the FT2232D offers a variety of additional new modes of operation, including a Multi-Protocol Synchronous Serial Engine interface which is designed specifically for synchronous serial protocols such as JTAG, I2C, and SPI bus.

Main Features:

- Single chip USB to dual channel serial/parallel ports with a variety of configurations
- Entire USB protocol handled on the chip: no USB-specific firmware programming required
- FT232BM-style UART interface option with full handshaking & modem interface signals
- UART interface supports 7/8 data bits, 1/2 stop bits and Odd / Even / Mark / Space / No Parity
- Data transfer rate of 300 Baud to 1M Baud (RS232)
- Data transfer rate of 300 Baud to 3M Baud (TTL and RS422/RS485)
- Auto transmit enable control for RS485 serial applications using TXDEN pin
- FT245BM-style FIFO interface option with bi-directional data bus and simple 4-wire handshaking interface
- Data transfer rate up to 1M Byte/second

The FT2232D is fully pin to pin compatible with the previous FT2232C and FT2232L devices. In addition to supporting all of the FT2232C / FT2232L functionality, the FT2232D has an additional interface mode, CPU FIFO mode, and is specified for -40 to +85 degrees C operating temperature range. The FT2232D is available in Pb-free (RoHS compliant) compact 48-Lead LQFP package.



Part No.	Description
FT2232 D	IO USB/2xUART/FIFO LQFP48

Part No.	Ord. No.
S FT2232D	69375

FT2232 H Series - Hi-Speed Dual USB UART/FIFO IC



The FT2232H is FTDI's 5th generation of USB devices. The FT2232H is a USB 2.0 High Speed (480Mb/s) to UART/FIFO IC. It has the capability of being configured in a variety of industry standard serial or parallel interfaces.

Main Features:

- Single chip USB to dual serial / parallel ports with a variety of configurations.
- Entire USB protocol handled on the chip. No USB specific firmware programming required.
- USB 2.0 High Speed (480Mbits/Second) and Full Speed (12Mbits/Second) compatible.
- Dual Multi-Protocol Synchronous Serial Engine (MPSSE) to simplify synchronous serial protocol (USB to JTAG, I2C, SPI or bit-bang) design.
- Dual independent UART or FIFO ports configurable using MPSSEs.
- Independent Baud rate generators.
- RS232/RS422/RS485 UART Transfer Data Rate up to 12Mbaud. (RS232 Data Rate limited by external level shifter).
- USB to parallel FIFO transfer data rate up to 8 Mbyte/Sec.
- Single channel synchronous FIFO mode for transfers > 25 Mbytes/Sec
- CPU-style FIFO interface mode simplifies CPU interface design.
- MCU host bus emulation mode configuration option.
- Fast Opto-Isolated serial interface option.
- FTDI's royalty-free Virtual Com Port (VCP) and Direct (D2XX) drivers eliminate the requirement for USB driver development in most cases.

Integrated Circuits

- Adjustable receive buffer timeout.
- Option for transmit and receive LED drive signals on each channel.
- Enhanced bit-bang Mode interface option with RD# and WR# strobes
- FT245B-style FIFO interface option with bidirectional data bus and simple 4 wire handshake interface.
- Highly integrated design includes +1.8V LDO regulator for V_{CORE}, integrated POR function and on chip clock multiplier PLL (12MHz - 480MHz).
- Asynchronous serial UART interface option with full hardware handshaking and modem interface signals.
- Fully assisted hardware or X-On / X-Off software handshaking.
- UART Interface supports 7/8 bit data, 1/2 stop bits, and Odd/Even/Mark/Space/No Parity.
- Auto-transmit enable control for RS485 serial applications using TXDEN pin.
- Operational configuration mode and USB Description strings configurable in external EEPROM over the USB interface.
- Configurable I/O drive strength (4, 8, 12 or 16mA) and slew rate.
- Low operating and USB suspend current.
- Supports bus powered, self powered and highpower bus powered USB configurations.
- UHCI/OHCI/EHCI host controller compatible.
- USB Bulk data transfer mode (512 byte packets in High Speed mode).
- +1.8V (chip core) and +3.3V I/O interfacing (+5V Tolerant).
- Extended -40°C to 85°C industrial operating temperature range.
- Compact 64-LD Lead Free LQFP or QFN package
- +3.3V single supply operating voltage range

Part No.	Description
FT2232 HL T&R	IO USB/2xUART/FIFO LQFP64
FT2232 HQ T&R	IO USB/2xUART/FIFO QFN64

Part No.	Ord. No.
S FT2232HL T&R	72508
O FT2232HQ T&R	72509

FT4232 H Series - Hi-Speed Quad USB UART IC



The FT4232H is FTDI's 5th generation of USB devices. The FT4232H is a USB 2.0 High Speed (480Mb/s) to UART/MPSSSE ICs. The device features 4 UARTs. Two of these have an option to independently configure an MPSSSE engine. This allows the FT4232H to operate as two UART/Bit-Bang ports plus two MPSSSE engines used to emulate JTAG, SPI, I2C, Bit-bang

or other synchronous serial modes. The FT4232H has the following advanced features:

- Single chip USB to quad serial ports with a variety of configurations.
- Entire USB protocol handled on the chip. No USB specific firmware programming required.
- USB 2.0 High Speed (480Mbits/Second) and Full Speed (12Mbits/Second) compatible.
- Two Multi-Protocol Synchronous Serial Engine (MPSSSE) on channel A and channel B, to simplify synchronous serial protocol (USB to JTAG, I2C, SPI or bit-bang) design.
- Independent Baud rate generators.
- RS232/RS422/RS485 UART Transfer Data Rate up to 12Mbaud.
- FTDI's royalty-free Virtual Com Port (VCP) and Direct (D2XX) drivers eliminate the requirement for USB driver development in most cases.
- Optional traffic TX/RX indicators can be added with LEDs and an external 74HC595 shift register.
- Adjustable receive buffer timeout.
- Support for USB suspend and resume conditions via PWREN#, SUSPEND# and RI# pins.
- Highly integrated design includes +1.8V LDO regulator for V_{CORE}, integrated POR function and on chip clock multiplier PLL (12MHz - 480MHz).
- Auto-transmit enable control for RS485 serial applications using TXDEN pin.
- Operational configuration mode and USB Description strings configurable in external EEPROM over the USB interface.
- Low operating and USB suspend current.
- Configurable I/O drive strength (4,8,12 or 16mA) and slew rate.
- Supports bus powered, self powered and highpower bus powered USB configurations.
- UHCI/OHCI/EHCI host controller compatible.
- USB Bulk data transfer mode (512 byte packets in High Speed mode).
- Dedicated Windows DLLs available for USB to JTAG, USB to SPI, and USB to I2C applications.
- +1.8V (chip core) and +3.3V I/O interfacing (+5V Tolerant).
- Extended -40°C to 85°C industrial operating temperature range.
- +3.3V single supply operating voltage range.

Part No.	Description
FT4232 HL T&R	IO USB/4xUART/FIFO LQFP64
FT4232 HQ T&R	IIO USB/4xUART/FIFO QFN64

Part No.	Ord. No.
S FT4232 HL T&R	72510
O FT4232HQ T&R	72511

VNCL1A

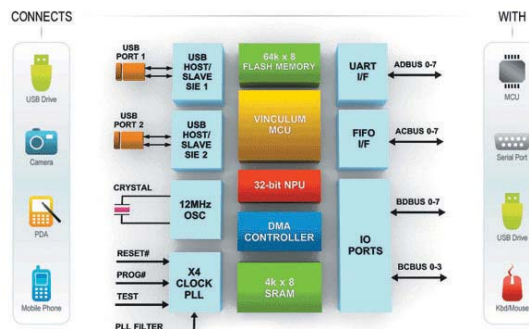


The Vinculum family of USB Host Controller ICs not only handle the USB Host Interface and data transfer functions, but owing to the inbuilt 8/32-bit MCU and embedded Flash memory, Vinculum encapsulates the USB device classes as well. When interfacing to mass storage devices such as USB Flash drives, Vinculum also transparently handles the FAT file structure communicating via UART, SPI or parallel

FIFO interfaces via a simple to implement command set. The initial product member of the family is the VNC1L device which features two USB Ports which can be individually configured by firmware as Host or Slave ports.

Key VNC1L features:

- 8/32 bit V-MCU Core
- Dual DMA controllers for hardware acceleration
- 64k Embedded Flash Program Memory
- 4k internal Data SRAM
- 2 x USB 2.0 Slow/Full speed Host/Slave Ports
- UART, SPI and Parallel FIFO interfaces
- PS2 legacy Keyboard and Mouse Interfaces
- Up to 28 GPIO pins depending on configuration
- 3.3V operation with 5V safe inputs
- Low power operation (25mA running/2mA standby)
- Inbuilt FTDI firmware easily updated in the field
- LQFP-48 RoHS compliant package
- Multi-processor configuration capable



Part No.	Ord. No.
S VNC 1L-1A	57555

FTDI Modules DLP-USB Series



The DLP-USB module is a low cost integrated module featuring FTDI's FT232BL or FT245BL 2nd generation. Ideal for rapid prototyping, an attractive quantity discount structure also makes this module suitable for incorporation into low/medium volume finished product designs. Integral 93C46 EEPROM on-board for easy OEM customisation. The DLP-USB plugs into a standard 24-pin 0.6in wide DIP socket.

Part No.	Ord. No.
S DLP-USB 232M	42417
S DLP-USB 245M	42418

MM 232-R



The MM232R is a mini development module for the FT232RQ IC device. It is a little bigger than a USB connector, and provides USB - Serial UART interface in an extremely small form factor. It is ideal for new development purposes, and also for adding a USB interface to existing product designs.

Based on the FT232RQ device, the MM232R supports RTS/CTS hardware handshaking and is powered from the USB port. Serial data communication is possible at up to 3Mbaud at L1 level. In addition, some of the EEPROM configurable CBUS pins of the FT232R are brought out allowing the MM232R to be used to provide clock signals to external logic.

Part No.	Ord. No.
S MM 232R	60339

FTDI Modules (continued)

UB 232-R



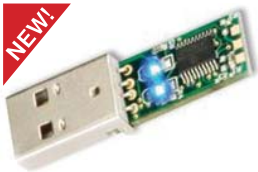
The UB232R is the smallest USB - serial module in the FTDI product range. To minimise the size of the module, the UB232R uses a standard USB mini-B connector. It is ideal for new development purposes and also for adding a USB interface to existing product designs.

Based on the FT232RQ device, the UB232R supports RTS/CTS hardware handshaking and is powered from the USB port. Serial data communication is possible at up to 3Mbaud at TTL level. In addition, two of the EEPROM configurable CBUS pins of the FT232R are brought out allowing the UB232R to be used to provide clock signals to external logic or signal traffic indicator LEDs.

Two 1x4 turned pin board headers with a standard 0.1" pitch are supplied with the UB232R to allow for rapid prototyping and development.

Part No.	Ord. No.
s UB 232 R	57991

USB-RS232-PCB



The USB-RS232-PCB is a USB to RS232 level serial UART converter PCB incorporating FTDI's FT232RQ USB to Serial UART interface IC device which handles all the USB signalling and protocols. The PCB provides a fast, simple way to connect devices with a RS232 level serial interface to USB.

Each USB-RS232-PCB contains a small internal electronic circuit board, utilising the FT232R plus a USB Part No.-A connector. The integrated electronics also include an RS232 level shifter plus Tx and Rx LEDs which give a visual indication of UART traffic.

The PCB is USB powered and USB 2.0 full speed compatible. Each PCB supports a data transfer rate up to 1 Mbaud and supports the FTDIChip-ID™, with a unique USB serial number programmed into the FT232R. This feature can be used to create a security or password protected file transfer access using the PCB.



Part No.	Ord. No.
s USB-RS232-PCBA	72060

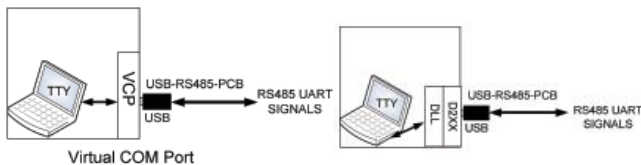
USB-RS485-PCB



The USB-RS485-PCB is a USB to RS485 level serial UART converter PCB incorporating FTDI's FT232RQ USB to Serial UART interface IC device which handles all the USB signalling and protocols. The PCB provides a fast, simple way to connect devices with a RS485 interface to USB.

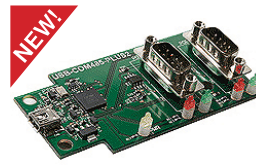
Each USB-RS485-PCB contains a small internal electronic circuit board, utilising the FT232R plus a USB Part No.-A connector. The integrated electronics also include an RS485 transceiver plus Tx and Rx LEDs which give a visual indication of UART traffic.

The PCB is USB powered and USB 2.0 full speed compatible. Each PCB supports a data transfer rate up to 3 Mbaud and supports the FTDIChip-ID™, with a unique USB serial number programmed into the FT232R. This feature can be used to create a security or password protected file transfer access using the PCB.



Part No.	Ord. No.
s USB-RS485-PCBA	72935

USB-COM485-PLUS2



The USB-COM485-Plus2 module is a single USB interface to two independent RS485 ports, communication device. The integrated electronics of the USB-COM485-PLUS2 utilise the FTDI FT232H (USB 2.0 Hi-Speed device) and includes RS485 level shifters plus Power/TXD/RXD LEDs to provide a visual indication of data traffic through the module.

- The module uses a standard USB-mini B device connector for connection to an upstream host or hub port. RS485-level signals, including RTS/CTS modem handshake signals, are available on an industry-standard DE-9P connector. There is a separate DB9-PE for each RS485 port.
- The module is powered from the host USB port and therefore does not require an external power supply.
- Pin 9 of the DE-9P connector provides 5V power to external devices. The maximum power is 250mA dependent upon the capabilities of the USB host.
- Local Echo of data may be enabled or disabled.
- The maximum RS485-level data rate is 10Mbps.
- The product works with the royalty free FTDI drivers for Windows, MAC, Linux.
- The USB-COM485-PLUS1 is fully RoHS compliant and is CE and FCC approved.
- Operating temperature range -40°C to +85°C.

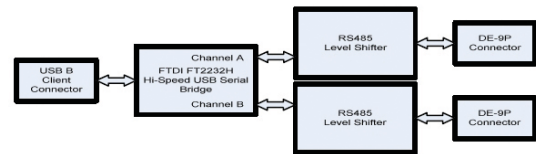


Figure 1.2 USB-COM485-PLUS2 Block Diagram

Part No.	Ord. No.
s USB-COM485-PLUS2	78494

VF2F2

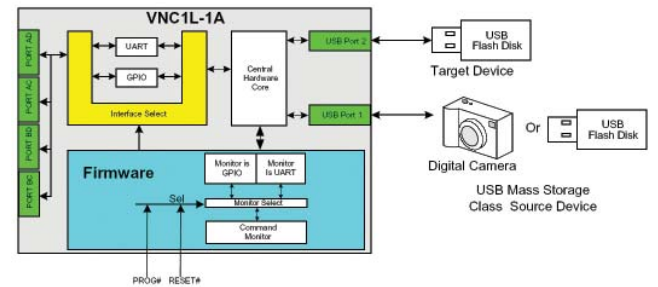


Back up Digital cameras to USB Flash Drives.

VF2F2 is a reference design for a VNC1L based stand-alone application. VF2F2 illustrates how to construct a file back up device for a digital camera with a USB Mass Storage Class interface. At the push of a button, all the picture files on the camera are copied to a unique folder of a USB Flash drive so that the digital camera memory can be re-used

to take further pictures. This is an ideal accessory for digital camera users who wish to backup their photos on the road without having to carry a notebook PC, or for people who want to share or swap their photos without requiring a card reader. VF2F2 is powered by two AAA size alkaline batteries.

- Two USB „A“ sockets connect to digital camera and USB Flash drive respectively
- Uses FTDI's VNC1L embedded USB host controller IC device
- Single button file backup function
- Intelligent LEDs illustrate successful USB Flash disk enumeration, file copy function and error conditions
- On-board DC-DC converter supplies the circuitry with 5V and 3.3V power from 2 x AAA cells
- Program or update firmware via USB Flash disk or UART interface
- VNC1L firmware programming control pins (RESET# and PROG#) brought out onto jumper interface
- Schematics, firmware and PCB Gerber files available for download
- Assembled VF2F2 PCB available for evaluation
- Assembled VF2F2 evaluation kit is Pb-free and RoHS compliant



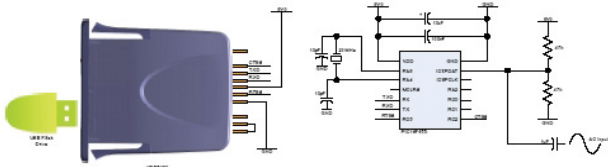
Part No.	Ord. No.
o VF2F2	80263

VDRIVE2



VDRIVE2 is possibly the easiest solution for adding a USB Flash Drive interface to existing products. Only four signal lines plus 5V supply and ground are required to be connected. Using the Vinculum VDAP firmware the VNC1L's I/O interface can be selected between the serial UART or SPI using the on-board jumper pins. Not only is the VDrive2 ideal for evaluation and development of VNC1L designs, but also its neat enclosure and attractive quantity discount structure makes this module suitable for incorporation into finished product designs. The VDrive2 is ideal for commercial products such as domestic goods, set top box, etc., as well as industrial products such as data loggers, software upgradable products, etc.

- USB 'A' Part No. socket to connect USB Flash drive
- Uses F.T.D.I.'s VNC1L embedded USB host controller I.C. device.
- Jumper selectable UART or SPI interfaces.
- Only four signals to connect, excluding power and ground.
- Single 5V supply input.
- Uses VDAP firmware and command set.



Part No.	Ord. No.
S VDRIVE2	60898

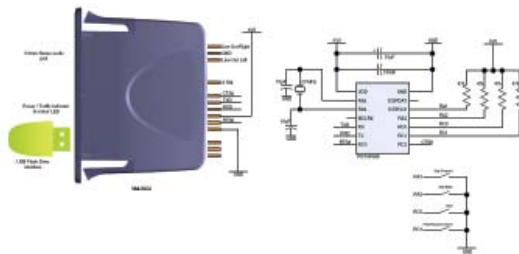
VMUSIC2



VMUSIC is a product that not only lets you add USB Flash drive interfacing to your product but allows you to play back MP3 and other popular digital music formats direct from a USB Flash drive. Extensions to the VDAP command set allow you to play a selected file as well as control the volume, balance, etc. of the sound channel and monitor the status of the file being played. VMUSIC is ideal for adding MP3 playback from USB drive capability to

home entertainment and in-car audio systems, as well as other appliances requiring audio playback capability from USB Flash drives.

- One USB „A“ socket to connect to USB Flash drive
- Stereo 3.5mm headphone jack socket and audio line-out connector
- Uses FTDI's VNC1L device coupled with VLSI VS1003 IC
- Jumper selectable UART or SPI interface
- Only 4 signals to connect excluding PWR/GND
- Program or update firmware via USB Flash disk or via UART interface
- Uses extended VDAP command set
- Single 5V supply input



Part No.	Ord. No.
S VMUSIC2	60716

UC 232 R USB - RS232 Converter

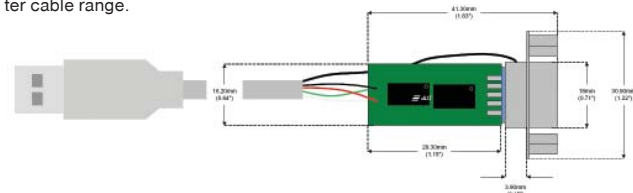


The UC232R-10-NE „ChiPi“ USB to RS232 converter is an evaluation cable for the FT232R. It utilizes the minimum number of components required for a basic USB - RS232 converter designed using the FT232RL. Using the FT232RL chip combined with an RS232 level converter and a few capacitors, the UC232R-10-NE „ChiPi“ is a CE and FCC approved product which is one of the simplest USB - RS232 solutions around.



Using a standard DB9 connector and powered from the USB port, the ChiPi can be used with the VCP drivers to provide a COM port on a PC which is capable of communication rates with RS232 devices from 300 baud up to 230kbaud.

The UC232R-10 „ChiPi“ is the economy version of FTDI's USB to RS232 converter cable range.



Part No.	Ord. No.
S UC232R-NE „ChiPi“	59950
S UC232R-R10 „ChiPi“	68088

TTL-232R Series



The new TTL-232R is a USB - TTL serial converter cable which will allow for a simple way to connect serial TTL level devices to USB. The TTL-232R uses a FT232RQ chip which is housed within the USB „A“ connector. A 1.8 meter (6 foot) cable is terminated with a 6 way 0.1" pitch header socket.

Part No.	Description	Ord. No.
S TTL-232R	Converter USB/RS232 (FT232R) 5,0V	56111
S TTL-232R-3V3	Converter USB/RS232 (FT232R) 3,3V	57997
O TTL-232R-AJ	Converter USB/RS232 audio jack	59463

USB-RSxxx-WE-1800BT Series



The USB_RSxxx cables are a family of USB to RSxxx levels serial UART converter cables incorporating FTDI's FT232RQ USB to serial UART interface IC device which handles all the USB signalling and protocols. The cables

provide a fast, simple way to connect devices with a RS232 or RS485 level serial UART interface to USB.

Each USB-RSxxx cable contains a small internal electronic circuit board, utilising the FT232R, which is encapsulated into the USB connector end of the cable. The USB side of the cable is USB powered and USB 2.0 full speed compatible. Each cable is 1.8m long and supports a data transfer rate up to 1 or 3 Mbaud. Each cable supports the FTDIChip-ID™, with a unique USB serial number programmed into the FT232R.

Part No.	Ord. No.
S USB-RS232-WE-1800BT	72059
S USB-RS485-WE-1800-BT	75342

US 232R-100 Premium USB - RS232 Serial Converter Cable



The US232R-100 is FTDI's premium USB to RS232 evaluation cable which can be used for testing the functionality of the FT232R device and drivers prior to design-in.

The electronics, including the FT232RQ chip are housed in an attractive glossy white enclosure with blue, side-lit LED Tx and Rx traffic indicators. A matching white 1m USB cable uses gold plated USB and DB9 connectors.

The US232R-100 evaluation cable is supplied in retail packaging which includes instructions together with a Drivers and Utilities CD complete with Microsoft WHQL certified VCP drivers for Windows XP. Drivers for the Apple Mac, Linux and other versions of Windows are also included on the CD. A bulk pack version is also available, which is supplied loose in an anti-static bag. No driver CD is supplied with the bulk pack version.

The US232R-100 uses an enhanced RS232 level converter and is capable of communication rates from 300 Baud to 1M Baud.

Part No.	Ord. No.
S US232R-100-BLK	71853

Evaluation Kits

UM 232-R



The UM232R module is a USB - Serial UART (TTL) development module for the FT232R IC device. The UM232R is supplied on a PCB designed to fit a 24 pin DIP socket, and provides access to all UART and CBUS interface pins of the FT232R device.

The UM232R can be configured as either USB bus-powered or self-powered and also supports 5V or 3V level interface IOs via two sets of jumper setting pins. Full hardware handshaking is supported and the UM232R can communicate at up to 3Mbaud at TTL/CMOS levels.



Part No.	Ord. No.
S UM 232-R	60341

UM 245-R



The UM245R module is a USB - Parallel FIFO interface (TTL) development module for the FT245R IC device. The UM245R is supplied on a PCB designed to fit a 24 pin DIP socket, and provides access to all FIFO interface and control pins (TXE#, RFX#, RD#, WR) of the FT245R device.

The UM245R can be configured as either USB bus-powered or self-powered and also supports 5V or 3V level interface IOs via two sets of jumper setting pins. The UM245R can transfer data at up to 1 MegaByte per second.



Part No.	Ord. No.
S UM 245-R	60343

EVAL 232-R



The EVAL232R is a USB to RS232 development and evaluation module for the FT232RL IC device. Additional header pins on the board which provide access to the FT232RL device's configurable CBUS interface pins.

Powered from USB, the EVAL232R supports both 5V and 3V level IO interface voltage on the CBUS via a jumper setting. Full RTS/CTS, and DTR/DSR hardware handshaking are supported, DCD and RI are also available. RS232 communication is possible at up to 250kbaud. LEDs are fitted to indicate activity on the FT232RL's TXD and RXD lines, thus showing when the module is transmitting, or receiving data.



Part No.	Ord. No.
S EVAL 232R	60336

FTx232 HQ MiniModule Series



The Hi-Speed Mini Modules are two evaluation modules which support FTDI's FT2232H and FT4232H USB 2.0 Hi-Speed devices. These modules have the capability of being configured in variety of industry standard serial or parallel interfaces such as UART, FIFO, JTAG, I2C and SPI. They are ideal for development purposes to quickly prove the concept of adding Hi-Speed USB to a target design.



Key features:

- USB 2.0 Hi-Speed compatible via small USB Part No. B connector.
- Rapid integration into existing systems via 2 double row male connectors (0.1" pitch).
- Asynchronous Serial data transfer rates from 300 baud to 12 Mbaud at TTL levels.
- Synchronous Serial (MPSSE) data rates of up to 30Mbps on JTAG, SPI and I2C.
- FT2232H-Mini-Module provides 2 independently configurable channels.
- FT4232H-Mini-Module provides 4 independently configurable channels.

Part No.	Ord. No.
S FT2232HQ Minimodule	73213
S FT4232HQ Minimodule	75174

VDIP1



The VDIP1 module is an MCU to USB host controller development module for the VNC1L device. VDIP1 is supplied on a PCB designed to fit a 24-pin DIP socket and provides access to all UART, SPI and FIFO interface pins of the VNC1L device. Ideal for rapid prototyping and development of VNC1L designs, an attractive quantity discount structure also makes this module suitable for incorporation into low/medium volume finished product designs..



Key features:

- Jumper selectable UART, SPI or FIFO MCU Interfaces
- Uses FTDI's VNC1L device
- USB „A“ Part No. socket to interface with USB peripherals
- 2nd USB Interface available via module pins if required
- Single 5V supply input
- Auxiliary 3.3V/200mA power output to power external logic
- Power Good and Traffic Indicator LEDs
- Reset# and Prog# signals allow device programming via the UART interface if required.

Part No.	Ord. No.
S VDIP1	57840

VDIP2



The VDIP2 module is an MCU to embedded USB host controller development module for the VNC1L I.C. device. The VDIP2 is supplied on a PCB designed to fit into a 40 pin DIP socket, and provides access to the UART, parallel FIFO, and SPI interface pins on the VNC1L device, via its AD and AC bus pins. All other Vinculum I/O pins are also accessible. Not only is it ideal for developing and rapid prototyping of VNC1L designs,

but also an attractive quantity discount structure makes this module suitable for incorporation into low and medium volume finished product designs.

Key features:

- Two vertically mounted USB „A“ Part No. sockets to interface with USB peripheral devices
- Uses FTDI's VNC1L device
- Jumper selectable UART, parallel FIFO or SPI MCU interfaces
- Single 5V supply input
- Auxiliary 3.3V/200mA power output to external logic
- Power and traffic indicator LEDs
- Program or update firmware via USB Flash disk or or via UART interface
- VNC1L firmware programming control pins PROG# and RESET# brought out onto jumper interface
- VDIP2 is a Pb-free, RoHS complaint development module
- VDIP2 module is supplied pre-loaded with Vinculum VDAP firmware

Part No.	Ord. No.
S VDIP2	75160

V-EVAL 1



The V-Eval Kit is a hardware platform that designers can use to develop embedded USB host systems based on FTDI's VNC1L devices. Designs can be rapidly debugged using the „spy“ mode of the supplied V-Eval software which displays the data sent between the VNC1L UART and a controller UART, for example a PIC.



Key features:

- Inbuilt VNC1L USB device programmer/ terminal emulator/command monitor hardware.
- Two VNC1L USB Host/Slave ports.
- Generous prototyping area for standard DIP and SIL devices.
- Multiple IO port connectors grouped by port name and/or function.
- LEDs and switches for user interaction.
- PS/2 keyboard and mouse ports.
- Downloadable programming, terminal emulation and debug monitor software.
- Downloadable HID class example project (VNC1L controlled USB rocket launcher) including PIC source code in C.

Part No.	Ord. No.
S V-EVAL1	67414

RTC - Real Time Clock ICs

Part No.	Ord. No.	Description
O DS 1302 S	7605	Real Time Clock 31x8 SO8 200mil
O DS 1302 SN	47005	Real Time Clock 31x8 -40+85°C SO8 200mil
O DS 1302 Z	9511	Real Time Clock 31x8 SMD SO8 150mil
S DS 1302+	4898	Real Time Clock 31x8 DIP8
S DS 1307 N	2839	Real Time Clock DIP8
O PCF 8563 T/F4,112 PBF	8507	Real Time Clock IC SO8
S RTC 4513	7037	Real Time Clock serial out SO14
S RTC 72421 A	38282	Real Time Clock DIP18
S RTC 72423 A	38283	Real Time Clock SOP24
S RTC 8564 JE	4861	Real Time Clock RTC I2C VSOJ20

Watch Dog - Supervisory ICs

Part No.	Ord. No.	Description
S ADM 690 AARNZ	6237	Supervisory IC 4,65V SO8
S ADM 690 ANZ	5782	Supervisory IC 4,65V DIP8
S ADM 691 ANZ	5093	Supervisory IC 4,65V DIP16
O ADM 707 ANZ	3464	Supervisory IC 4,65V DIP8
S DS 1233-5	4968	Supervisory IC 5V 5% TO92
S DS 1233Z-5	44862	IC EconoReset SOT223
O LTC 1232 CN 8	33149	Supervisory IC 4,62/4,37V DIP8
O LTC 1232 CS 8 SMD	33158	Supervisory IC 4,62/4,37V SO8
S LTC 690 CS8#PBF	32767	Supervisory IC SO8
S MAX 1232 CPA+	12745	Supervisory IC 4,5/4,75V DIP8
O MAX 1232 CSA+	6226	Supervisory IC 4,62V SO8
O MAX 1232 EPA	49405	Supervisory IC 4,62V DIP8 -40...85°C
S MAX 690 CPA+	12732	Supervisory IC 4,65V DIP8
S MAX 691 ACPE+	12741	Supervisory IC 4,65V DIP16
S MAX 813 LCPA+	12742	Supervisory IC 4,65V DIP8
O MAX 813 LCSA	12806	Supervisory IC 4,65V SO8
S MC 33164 P-5	8660	Supervisory IC TO92
O STM 812 LW1 6F	54912	Supervisory IC 4,63V SOT143-R
S TC 1232 COA-SMD	6588	Supervisory IC 4,62V SO8
S TC 1232 CPA	6587	Supervisory IC 4,62V DIP8
S TL 7702 ACD	41207	Supervisory IC 2,48-2,58V SO8
S TL 7702 ACP	18886	Supervisory IC 2,48-2,58V DIP8
S TL 7705 ACD 1/A SMD	23873	Supervisory IC 4,5-4,6V SO8
S TL 7705 ACP	18887	Supervisory IC 4,5-4,6V DIP8
S TL 7712 ACP	18889	Supervisory IC 10,6-11,0V DIP8

Digital Potentiometers

The DS1804 NV trimmer potentiometer is a nonvolatile digital potentiometer that has 100 positions. The device provides an ideal method for low-cost trimming applications using a CPU or manual control input with minimal external circuitry. Wiper position of the DS1804 can be stored in EEPROM memory on demand. The device is provided in an industrial temperature grade. Additionally, the DS1804 will operate from 3V or 5V supplies and is ideal for portable application requirements.

Part No.	Ord. No.	Description
S DS 1804-10+	7042	Digital potentiometer 10kOhm lin. DIP8
S DS 1804-100+	7044	Digital potentiometer 100kOhm lin. DIP8
S DS 1804-50	7043	Digital potentiometer 50kOhm lin. DIP8
S DS 1809-100	48755	Digital potentiometer 100kOhm DIP8



A/D Converters

Part No.	Ord. No.	Description
o AD 7714 AN-5	9056	Converter A/D 24bit DIP24
o AD 7714 ARZ-5	51761	Converter A/D 24bit SO24
o AD 9203 ARUZ	49476	Converter A/D 10bit 40MSPS 3V SSOP28
s ADC 0804 LCN	28505	Converter A/D parallel 8bit DIP20
s ADC 0831 CCN/NOPB	2594	Converter A/D CMOS 8bit DIP8
o ADC 12038 CIWM	42779	Converter A/D serial 12bit Microwire SOIC28
o ADS 7807 P	2142	Converter A/D 16bit DIP28
s ADS 7816 P	4284	Converter A/D 12bit DIP8
s ADS 7816 U SMD	5721	Converter A/D 12bit SO8
s ADS 7846 E	63743	Touch Panel Controller SSOP16
s ICL 7106 CPL	13462	Converter A/D LCD DIP40
s ICL 7107 CPL	13463	Converter A/D LED DIP40
s ICL 7109 CPL	22341	Converter A/D 12bit DIP40
o ICL 7135 CP =TLC7135CN	22342	Converter A/D CMOS DIP28
o LTC 1286 CN 8	37249	Converter A/D 12bit DIP8
o LTC 1298 CN 8	37823	Converter A/D 12bit DIP8
o LTC 2440 CGN	52238	Converter A/D 24-bit Delta-Sigma fast SSOP16
o MAX 186 CCPP	2615	Converter A/D LP, 8-Ch, Serial 12bit DIP20
s TC 3400 VPA	9003	Converter A/D 16bit sigma delta DIP8
s TLC 549 CP	5388	Converter A/D 8bit DIP8

D/A Converters

Part No.	Ord. No.	Description
o AD 420 AN-32	2881	Converter D/A 16bit, current loop output DIP24
o AD 420 ARZ-32	6954	Converter D/A 16bit, current loop output SOL24
o AD 7533 KR	49240	Converter D/A 10bit $\pm 0,05\%$ $-40^{\circ}\text{C}+85^{\circ}\text{C}$ SO16
o AD 7533 LNZ	47144	Converter D/A 10bit $\pm 0,05\%$ $-40^{\circ}\text{C}+85^{\circ}\text{C}$ DIP16
s DAC 08 EP = EPZ	2581	Converter D/A High Speed 0,19% DIP16
o LTC 1665 CN	48872	Micropower Octal 10-Bit DAC DIP16

A/D + D/A Converters

Part No.	Ord. No.	Description
o AD 1843 JS	48275	Serial-Port 16-Bit SoundComm Codec PQFP80
s PCF 8591 P	23583	I2C Converter A/D+D/A DIP16

Other Converters

Part No.	Ord. No.	Description
s LM 331 N	7084	Converter U/f f/U 100kHz DIP8
s VFC 32 KP	2067	Converter U/f f/U 500kHz DIP14
s XR 4151 = RV 4151 TX	3349	Converter U/f f/U 10kHz DIP8
s XTR 105 P	3757	Converter PT100-prúd DIP14
s XTR 105 UA	5963	Converter PT100-prúd SO14
s XTR 115 UA	7381	4-20mA Transmitter SO8

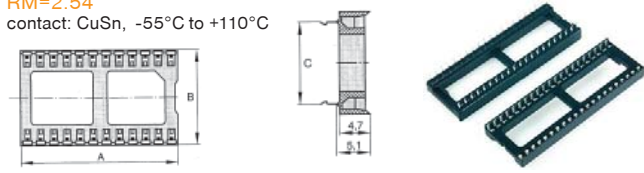
Ethernet ICs

Part No.	Ord. No.	Description
s ENC 28J60-I/SO	56904	Ethernet LAN Controller SPI SO28
o CP 2102-GM	53680	Converter USB/RS232 LF MLP28
o CP 2200-GQ	58080	Ethernet Contr. 3,1-3,6V TQFP48
o CP 2201-GM	56335	Ethernet Contr. 3,1-3,6V QFN28
o CS8900A-CQZ	45840	Ethernet LAN Contr. 5V, LQFP100
o CS8900A-IQ3Z	63580	Ethernet LAN Contr. 3,3V, LQFP100
s RTL 8019 AS	54045	Ethernet Contr. 10Mb, FDEC PnP TQFP100



Standard DIP IC Sockets

RM=2.54
contact: CuSn, -55°C to +110°C

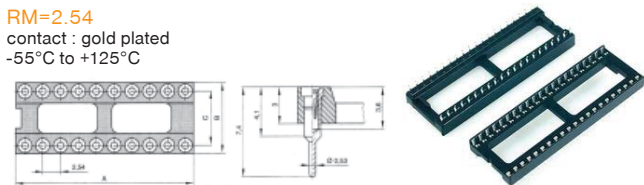


Part No.	Socket	A [mm]	B [mm]	C [mm]
ECLC 06	6-pins	7,54	10,08	7,62
ECLC 08	8-pins	10,08	10,08	7,62
ECLC 14	14-pins	17,70	10,08	7,62
ECLC 16	16-pins	20,24	10,08	7,62
ECLC 18	18-pins	22,78	10,08	7,62
ECLC 20	20-pins	25,32	10,08	7,62
ECLC 24-3	24-pins, slim	30,40	10,08	7,62
ECLC 24-6	24-pins, wide	30,40	17,70	15,24
ECLC 28-3	28-pins, slim	35,48	17,70	15,24
ECLC 28-6	28-pins, wide			15,24
ECLC 32	32-pins, wide	40,56	17,70	15,24
ECLC 40	40-pins	50,72	17,70	15,24

Part No.	Packing	Ord. No.
S ECLC 06	80pcs	30602
S ECLC 08	60pcs	30603
S ECLC 14	34pcs	30604
S ECLC 16	30pcs	30605
S ECLC 18	26pcs	30606
S ECLC 20	24pcs	30607
S ECLC 24-3	20pcs	30608
S ECLC 24-6	20pcs	30609
S ECLC 28-6	17pcs	30610
S ECLC 32-6	15pcs	30611
S ECLC 40	12pcs	30612
S ECLC 28-3	17pcs	40913

Precision DIP IC Sockets

RM=2.54
contact : gold plated
-55°C to +125°C



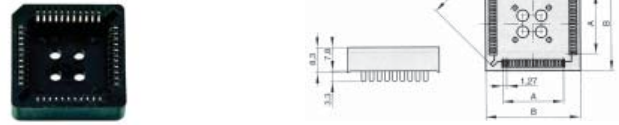
Part No.	Socket	A [mm]	B [mm]	C [mm]
ECPF06	6-pins	7,54	10,08	7,62
ECPF08	8-pins	10,08	10,08	7,62
ECPF14	14-pins	17,70	10,08	7,62
ECPF16	16-pins	20,24	10,08	7,62
ECPF18	18-pins	22,78	10,08	7,62
ECPF20	20-pins	25,32	10,08	7,62
ECPF24-3	24-pins, slim	30,40	10,08	7,62
ECPF24-6	24-pins, wide	30,40	17,70	15,24
ECPF28-3	28-pins, slim	35,48	10,08	7,62
ECPF28-6	28-pins, wide	35,48	17,70	15,24
ECPF32	32-pins	40,56	17,70	15,24
ECPF40	40-pins	50,72	17,70	15,24

Part No.	Packing	Ord. No.
S ECPF06	80pcs	33172
S ECPF08	60pcs	33173
S ECPF14	33pcs	33174
S ECPF16	29pcs	33175
S ECPF18	26pcs	33176
S ECPF20	23pcs	33177
S ECPF24-3	19pcs	33178
S ECPF24-6	19pcs	33179
S ECPF28-6	16pcs	33180
S ECPF32	15ks	33181

S ECPF40	11ks	33182
S ECPF28-3	16ks	40503

PLCC IC Sockets

-55°C to +125°C

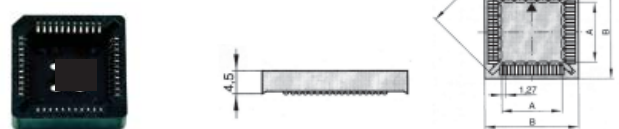


Part No.	Socket	A [mm]	B [mm]	C [mm]
PLCC 28	28-pins	7,62	18,2	20,70
PLCC 32	32-pins	7,62	18,7	22,70
PLCC 44	44-pins	12,70	23,5	28,40
PLCC 52	52-pins	15,24	26,00	32,70
PLCC 68	68-pins	20,32	32,00	38,20
PLCC 84	84-pins	25,40	36,70	45,40

Part No.	Packing	Ord. No.
S PLCC 20	37pcs	40914
S PLCC 32	28pcs	24771
S PLCC 44	25pcs	22502
S PLCC 52	22pcs	24772
S PLCC 68	18pcs	20383
S PLCC 84	16pcs	20384

IC Sockets PLCC SMD

-55°C to +125°C



Part No.	Socket	A [mm]	B [mm]	C [mm]
PLCC 20 SMD	20-pins	5,08	15,58	16
PLCC 28 SMD	28-pins	7,62	18,12	20,6
PLCC 32 SMD	32-pins	7,62	18,12	22,5
PLCC 44 SMD	44-pins	12,7	23,2	27,5
PLCC 52 SMD	52-pins	15,24	25,74	31,1
PLCC 68 SMD	68-pins	20,32	30,82	38,8
PLCC 84 SMD	84-pins	25,4	25,9	44,8

Part No.	Packing	Ord. No.
S PLCC 20 SMD	37pcs	30569
S PLCC 28 SMD	32pcs	30570
S PLCC 32 SMD	28pcs	30571
S PLCC 44 SMD	26pcs	40915
S PLCC 52 SMD	20pcs	30573
S PLCC 68 SMD	19pcs	30574
S PLCC 84 SMD	16pcs	30575

Test (ZIF) Sockets



Good quality wide slot universal ZIF (Zero Insertion Force) socket.

Using the ZIF socket allows quick and easy insertion of devices like PIC chips for programming without any possibility of leg damage. Simply flick the integral lever to clamp the pins for programming and lift again to release the device.

Part No.	Socket	A	B	C	Z	P
TEX 24	24-pins	45,30	40,90	22,90	11,00	15,24
TEX 28	28-pins	50,40	46,00	22,90	13,00	15,24
TEX 40	40-pins	65,60	61,20	22,90	19,00	15,24

Part No.	Ord. No.
S TEX 24	13334
S TEX 28	13335
S TEX 40	13336

Temperature and Humidity Sensors

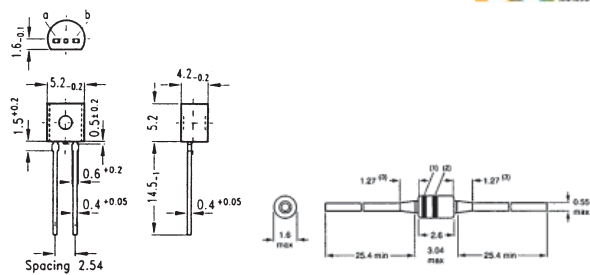
DS Series



Part No.	Description
DS 1629 S	Sensor temp.+RTC-2WIRE SO8
DS 1821+	Sensor temp. -55....125°C PR35
DS 18S20+	Sensor temp. -55....125°C TO92

Part No.	Ord. No.
o DS 1629 S	7886
o DS 1821+	50891
s DS 18S20+	3199

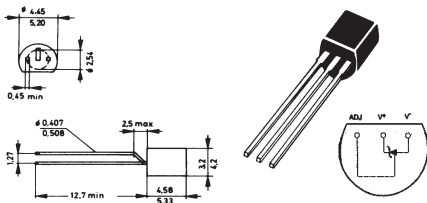
KTY Series



Part No.	Description
KTY 81-110	Sensor temp. 1000R/25°C ±1% TO92
KTY 81-120	Sensor temp. 1000R/25°C ±2% TO92
KTY 81-210	Sensor temp. 2000R/25°C ±1% TO92
KTY 83-110	Sensor temp. 1000R/25°C ±1% DO34

Part No.	Ord. No.
s KTY 81-110	20754
s KTY 81-120	20755
s KTY 81-210	20756
s KTY 83-110	20758

LM Series



Part No.	Description
LM 335 Z	Sensor temp. -40...+110°C TO92
LM 35 CZ	Sensor temp. -40...+110°C TO92
LM 35 DM/NOPB	Sensor temp. -55....150°C SO8
LM 35 DZ	Sensor temp. 0...+100°C TO92

Part No.	Ord. No.
s LM 335 Z	17777
s LM 35 CZ	20587
o LM 35 DM/NOPB	53211
s LM 35 DZ	41211

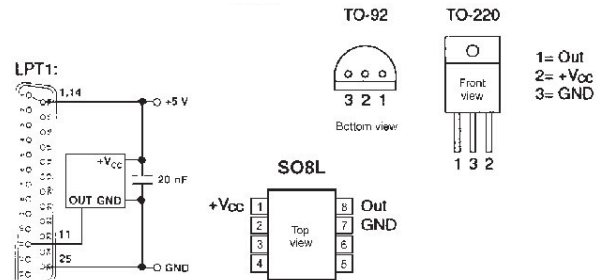
SHT Series



Part No.	Description
SHT 11	Sensor humidity and temp. 5% I2C SMD
SHT 71	Sensor rel. humidity 0-100% RH
SHT 75	Sensor humidity and temp. 2% I2C SIL4

Part No.	Ord. No.
o SHT 11	47760
s SHT 71	44912
o SHT 75	45894

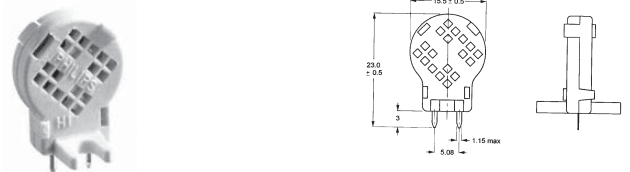
SMT Series



Part No.	Description
SMT-160-30-220	Sensor temp.PWM -45+130°C/±1,7 5V/0,2mA TO220
SMT-160-30-92	Sensor temp.PWM vjst.-45+130°C/±2 5V/0,2mA TO92
SMT-160-30-SOIC	Sensor temp.PWM -45+130°C/±1,5 5V/0,2mA SO8

Part No.	Ord. No.
s SMT-160-30-220	45230
s SMT-160-30-92	42525
o SMT-160-30-SOIC	45231

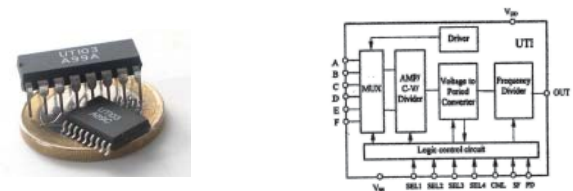
Humidity - 1



Measuring range: 10-90%RH
 Capacity at 25°C: 122pF
 Sensitivity 12 to 75%: 0,4pF
 Temperature range: -25°C to +85°C

Part No.	Ord. No.
s Humidity-1	20266

Converters for Sensors



Part No.	Description
UTI 03 DIL16	Converter for sensor SMT, DIP16

Part No.	Ord. No.
s UTI 03 DIL16	45230

Capacitive Touch Sensors

MPR Series



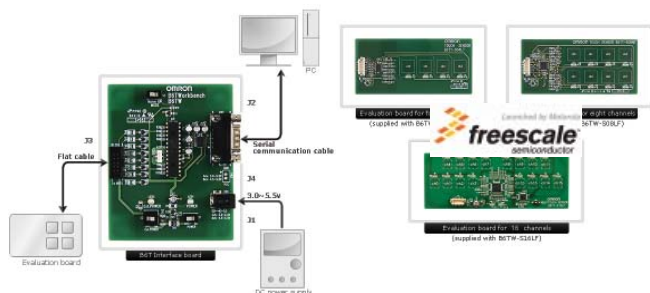
Capacitive Touch Sensor
 Supply current: 4µA
 Supply voltage min:1.8V - max.3.6V
 Temperature range :-40 °C to +85 °C



Part No.	Description
MPR083EJ	Proximity Capacitive Touch Sensor Controller TSSOP16
MPR084EJ	Proximity Capacitive Touch Sensor Controller TSSOP16

Part No.	Ord. No.
S MPR083EJ	65545
S MPR084EJ	65546

B6TW Series



Our new touch sensor IC family, B6TS, is the key to designing flexible, responsive and reliable capacitive touch controls in the new generation of consumer brown and white goods and AV equipment as well as vending machines, lift controls and security access. The B6TS is a durable replacement to any Part No. of tactile switch.

Capacitive touch sensing is growing in popularity as an easy to implement, flexible and

reliable control interface for a wide range of applications. We are focused on increasing our research and development efforts in this market and will continue to expand our product range.

To minimise the cost of the finished system, cost-effective commercial single-sided PCB materials such as FR-2 or CEM-1 can be used. For non-flat user interfaces, FPCs (Flexible Printed Circuit) can be used to build unique design touch panel solutions. Touch keys can be produced using any non-conducting panel material including plastic, rubber, glass, marble and wood.

The Design Tool B6TWorkbench (B6TW) allows touch panel protoPart No. builds in hours rather than days and therefore speeds up time to market. The B6TW allows designers to experiment with user-definable settings to achieve desired sensing performance and accommodate anticipated environment changes in the custom specific touch panel (Man-Machine-Interface MMI)

Part No.	Ord. No.	Description
S B6TW-S04LT	68985	Development kit for Capacitive Touch Sensor 4-channels
S B6TW-S08LF	68986	Development kit for Capacitive Touch Sensor 8-channels
S B6TW-S16LF	68987	Development kit for Capacitive Touch Sensor 16-channels
O B6TS-04LT	63368	IC Capacitive Touch Sensor 4-channels SSOP 20
O B6TS-06LF	68983	IC Capacitive Touch Sensor 8-channels QFP 32
O B6TS-16LF	68984	IC Capacitive Touch Sensor 16-channels QFP 52

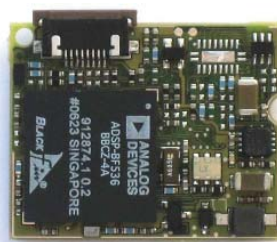
E 100 S



This kit is designed for the evaluation and development of applications using the QT100-ISG Integrated Circuit (IC).
 Power supply: CR2032 Battery, 3V, 235mAh

Part No.	Ord. No.
O E 100 S	72290

TOPSEC Series - Biometric Sensors



Part No.	Ord. No.	Description
S TopSec ATMEL	68956	Development kit with biometric sensor ter.
S TopSec Testech	68955	Development kit with biometric sensor opt.
S TopSec UPEK TCS2	68953	Development kit with biometric sensor cap.

Pressure Sensors

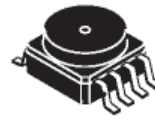
MPX Series



C344



C867



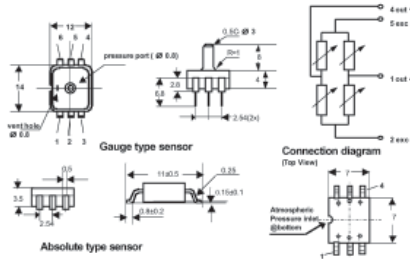
482 SMD

Part No.	Note	Range	Sensitivity	Linearity	Package
MPX 12 DP	Uncomp	0-10kPa/Bar	5,5mV/kPa	-0,5/+5%	C344C
MPX 2010 DP	Comp	0-10kPa/Bar	2,5mV/kPa	+/-1%	C344C
MPX 2010 GP	Comp	0-10kPa/Bar	2,5mV/kPa	+/-1%	C344B
MPX 2050 DP	Comp	0-50kPa/Bar	0,8mV/kPa	+/-0,25%	C344C
MPX 2100 AP	Comp	0-100kPa/Bar	0,4mV/kPa	+/-1%	C344B
MPX 2100 DP	Comp	0-100kPa/Bar	0,4mV/kPa	+/-0,25%	C344C
MPX 2202 AP	Comp	0-200kPa/Bar	0,2mV/kPa	+/-1%	C344C
MPX 4115 A	Int	15-115kPa/Bar	45,9mV/kPa	+/-1,5%	C867
MPX 4250 AP	Int	15-115kPa/Bar	45,9mV/kPa	+/-1,5%	SMD
MPX 4250 DP	Int	0-250kPa/Bar	18,8 mV/kPa	+/-1,4%	C867
MPX 5100 DP	Int	20-250kPa/Bar	20mV/kPa	+/-1,5%	C867
MPX 5500 DP	Int	0-100kPa/Bar	45mV/kPa	+/-2,5%	C867C
MPX 5999 D	Int	0-500kPa/Bar	9mV/kPa	+/-2,5%	C868C
MPXA 4115 AC6U	Int	0-1000kPa/Bar	4,5mV/kPa	+/-2,5%	C867C

*) Uncomp=non compensated, Comp=compensated, Int=integrated

Part No.	Ord. No.
O MPX 12 DP	8997
O MPX 2010 DP	5521
O MPX 2010 GP	8998
O MPX 2050 DP	9000
O MPX 2100 AP	9001
O MPX 2100 DP	9002
O MPX 2202 AP	48985
S MPX 4115 A	6547
O MPX 4250 AP	9008
O MPX 4250 DP	71722
O MPX 5100 DP	49816
O MPX 5500 DP	9006
O MPX 5999 D	9007
O MPXA 4115 AC6U	8615

SPD Series



Part No.	Description
SPD 005 G	Pressure sensor 0,00-0,35 Bar
SPD 015 G	Pressure sensor 0,00-1,00 Bar
SPD 100 G	Pressure sensor 0,00-6,50 Bar

Part No.	Ord. No.
S SPD 005 G	47508
S SPD 015 G	47509
S SPD 100 G	47511

Gas Sensors

Oxygen and Hydrogen Sensors FIGARO



KE 25 TGS 821

Part No.	Ord. No.	Description
o KE 25	53099	Sensor gas - oxygen
o TGS 821	53105	Sensor gas - hydrogen

CO and CO2 Sensors

FIGARO



TGS 203 TGS 2442 TGS 4160 TGS 4161

Part No.	Ord. No.	Description
o TGS 203	42529	Sensor carbon monoxide gas - CO
o TGS 2442	52855	Sensor CO TO-5
o TGS 4160	53102	Sensor gas - CO2
o TGS 4161	53103	Sensor gas - CO2

Methane, Butane, LP Sensors

FIGARO



TGS 2610, 2611 TGS 813, 842

Part No.	Ord. No.	Description
o TGS 2610-J00	52853	Sensor butane, LP gas TO-5
o TGS 2611-C00	52854	Sensor methane TO-5
o TGS 813-A00	483	Sensor propane, butane, methane
o TGS 842-A00	9544	Sensor methane

Alcohol Sensors

FIGARO



TGS 2620 TGS 822

Part No.	Ord. No.	Description
o TGS 2620-C00	53101	Alcohol, Toluene, Xylene
o TGS 822	7719	Alcohol, Organic fumes

Air Contaminants Sensors

FIGARO



TGS 2600 TGS 800

Part No.	Ord. No.	Description
o TGS 2600-B00	53100	Sensor - detection of air contaminants
o TGS 800	7719	Sensor gas - conditioned atmosphere

Other Gas Sensors

FIGARO



TGS 825, 826, 832

Part No.	Ord. No.	Description
o TGS 2630	70933	Freon sensor
o TGS 825	62693	Sensor gas - hydrogen sulfide gas sensor
o TGS 826	53106	Sensor gas - ammonia
o TGS 832	53108	Sensor gas -chlorofluorocarbons (CFC's)

Miscellaneous Gas Sensors



PYM Series

PYM 151/152

The PYM 151/2 Series represent the first low cost gas alarm sensor for natural gas sensing in consumer applications. Using Infrared absorption technology (NDIR) and combining a robust IR Source with a highly reliable pyroelectric detector, this sensor achieves long term stability and performance. It boasts a digital output, with self monitoring and diagnostic features. The factory calibrated, fully tested unit is designed for long term operation for a minimum of 8 years.

Part No.	Ord. No.	Description
o PYM 151	52332	Natural gas sensor
o PYM 152	52333	Smart natural gas sensor

Accelerometers



LIS Series



The LIS3LV02DQ is a three axes digital output linear accelerometer that includes a sensing element and an IC interface able to take the information from the sensing element and to provide the measured acceleration signals to the external world through an I2C/SPI serial interface. The sensing element, capable of detecting the acceleration, is manufactured using a dedicated process developed by ST to produce inertial sensors and actuators in silicon. The IC interface instead is manufactured using a CMOS process that allows high level of integration to design a dedicated circuit which is factory trimmed to better match the sensing element characteristics.

Part No.	Ord. No.	Description
o LIS 3LV02 DL	61033	IC Accelerometer 3 AXIS LGA16
S LIS 3LV02 DQ	56071	IC Accelerometer 3 AXIS QFPN28

ADXL Series



The ADXL320 is a low cost, low power, complete dual-axis accelerometer with signal conditioned voltage outputs, which is all on a single monolithic IC. The product measures acceleration with a full-scale range of $\pm 5g$ (typical). It can also measure both dynamic acceleration (vibration) and static acceleration (gravity)

Part No.	Ord. No.	Description
o ADXL 320 JCP	54570	Accelerometer $\pm 5g$ LFCSP16
o ADXL 321 JCP	54573	Accelerometer $\pm 18g$ LFCSP16