

LAN Modules (continued)

WIPOORT



Embedded Wireless Device Server

- 802.11 b/g wireless networking for virtually any electronic device
- Wired Ethernet-to-wireless bridging
- Bulletproof wireless security with IEEE 802.11i-PSK, WPA-PSK, TKIP
- Secure end-to-end communication with Advanced Encryption Standards (AES)
- FCC Class B, UL and EN EMC and safety-compliant

Technical Parameters	WP2001000G-02
Wireless Standards	IEEE 802.11b, 802.11g
Frequency Range	2.412 - 2.484 GHz
Output Power	14dBm +1.5 dBm/-1.0 dBm
Maximum Receive Level	-10dBm (with PER < 8%)
Data Rates With Auto Fallback	54Mbps - 1Mbps
Range	Up to 328 feet indoors
Modulation Techniques	OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM
Serial Interface	CMOS (Asynchronous) 3.3V-level signals, rate is software selectable (300 bps to 921,600 bps)
Network Interface	Wireless 802.11b, 802.11g and 10/100 Ethernet
Protocols Supported	ARP, UDP, TCP, Telnet, ICMP, SNMP, DHCP, BOOTP, Auto IP, HTTP, SMTP, TFTP
Management	Internal web server, SNMP (read only) Serial login, Telnet login, DeviceInstaller software
Security	IEEE 802.11i - PSK with AES-CCMP Encryption, WPA - PSK, TKIP Encryption, 64/128-bit WEP
CPU, Memory	Lantronix DSTni-EX 186 CPU, on-chip 256 KB zero wait static SRAM, 2,048 KB Flash, 16 KB Boot ROM, 802.11 b/g radio
Power Consumption	300-1300mW
Peak Supply Current	650 mA
Dimensions	33.9 x 32.5 x 10.5mm
Part No.	Ord. No.
S WP2001000G-02	58827

IT800 Series



The IT800 is a highly integrated SoC (System on a Chip) Powerline Communication modem. The chip incorporates Yitran's high performance DLL (Data Link Layer) and extremely reliable PHY (Physical) layer. The IT800 is an ideal solution for a variety of command and control applications and offers the required flexibility for the implementation of communication protocols as well as proprietary products.

MAIN FEATURES

- Highly integrated SoC (System on a Chip) Powerline Communication modem
- Incorporates Yitran's high performance DLL (Data Link Layer) and extremely robust PHY (Physical) layer
- Simple serial Host interface (logical command language over UART)
- Seamlessly integrated with higher layers protocol stacks
- High in-phase and cross-phase reliability
- Complies with worldwide regulation requirements (FCC, ARIB, CENELEC)
- Ideal for Command and Control applications including Energy Management, Smart
- Grid, AMR (Automatic Meter Reading), Home/Building automation; lighting, security and HVAC control and more.

Part No.	Note	Ord. No.
S IT800Y-APIM-CB	Europe Indoor	67717

IT700 Series



IT700 is a fully integrated Powerline Communication (PLC) modem and application solution on a single chip. IT700 incorporates Yitran's extremely reliable PHY (Physical Layer), line driver and a 8051 Micro with 256 KB Flash for protocol stack and application implementation as well as 24 general purpose I/Os.

IT700 is an ideal solution for a variety of narrow-band applications and offers the required flexibility for the implementation of communication protocols and applications.

MAIN FEATURES

- Full, low cost PLC modem and application solution in a single chip
- Incorporates YITRAN'S high performance DLL (Data Link Layer), Y-Net protocol and extremely robust PHY (Physical layer)
- HomePlug® Command and Control ready
- Includes 8051 Micro for protocol stack and application
- High in-phase and cross-phase reliability
- Complies with worldwide regulation requirements (FCC, ARIB, CENELEC)
- Ideal for "No New Wires" applications utilizing the existing electrical wiring and grids, such as home automation, command and control, security and AMR (Automatic Meter Reading)/AMM/AM
- Fully back compatible with IT800 series

Technical Parameters	
Modulation	DCSK
Bit Rate	Robust Mode (RM) - 2.5 Kbps Extremely Robust Mode (ERM) - 0.625 Kbps
Error Correction	Forward short-block soft decoding error correction code and CRC-16
Receiver Sensitivity	<1mV PTP
Dynamic Range	>85dB
Single Supply Voltage	+3.3V
Interface	UART / SPI / I2C / JTAG / dedicated A/D
Package	QFN 56 (56 pins)
I/Os	24 general purpose I/Os

Part No.	Note	Ord. No.
S IT700-PIM708-CA3	Europe Outdoor	73851
S IT700-PIM708-CB	Europe Indoor	72835
S IT700-PS-4C	SMPS for IT700-PIM	73852

Y-NET



The Y-Net Evaluation Package package is designed to enable evaluation, testing and application development with Yitran's IT700 networking technology to provide solutions for command and control applications. The evaluation package consists of Yitran's STK development board on which the IC comes pre-flashed with the DLL and Yitran's Y-Net Network Protocol software. The package contains:

- 1 Concentrator
- 5 Remote Stations
- 6 Power Supplies and Cables
- CD with software and documentation

Part No.	Ord. No.
O Y-NET	65437