

WIRELESS X-GATEWAY 101 -AE

Model XCPE-101-AE



Overview

The XiNCOM XCPE-101-AE combines an RJ-11 WAN port and a user-configurable RJ-45 WAN port for use in a SOHO or Small business environment. It is a fully functioning ADSL2/2+ modem/Ethernet router combo allowing it to be implemented into a wide variety of network setups using any broadband connection type. This networking device integrates a ADSL modem, router, firewall, 4 Port Ethernet LAN Switch, USB Port, Wireless 802.11b/g Access Point and VoIP SIP gateway in one device. One LAN port can also be configured as a WAN port for a Metro Ethernet access. Users can use an existing legacy (analog) telephone connected to the XCPE-101-AE to make low cost VoIP calls*. Data access is provided via Wireless options via high speed 802.11b/g or Wired option via 4-port Ethernet or USB connection. With the Easy Connect technology, networking becomes a breeze.

Security is provided via a double Stateful Packet Inspection and NAT based firewall and Hardware accelerated AES/WEP/WPA based encryption/MAC Address Filtering for Wireless links. VPN Pass-through and DMZ support provide additional security support for telecommuters as well as allow flexibility while maintaining security against malicious hackers.

With Universal Plug and Play support, home networking becomes a breeze for everyone in the family. Multi Port Range/Popular Application Forwarding makes it even easier to select which application you want your network to allow while ensuring your security at the same time.

**Requires an active subscription with a SIP VoIP provider*

XCPE-101-AE Specifications

ADSL/ATM Support

- ANSI T1.413 issue 2, ITU-T G.992.1 (G.dmt) and G.992.2 (G.lite) compliant
- ITU-T G.992.1 (G.dmt Annex B) Population Option
- ADSL2, ADSL2+, RE-ADSL Compliant
- TR-064, TR-067, TR-068, TR-069 Compliant
- Rate Adaptive modem at 32 Kbps steps
- Bridge Tap Mitigation support
- ATM Layer with Traffic shaping QoS Support (UBR, CBR, VBR-rt, VBR-nrt)
- AAL ATM Attributes - AAL5
- Multiple PVC up to 8 support
- Spectral compatibility with POTS
- F5 OAM Loopback/Send and Receive

Encapsulation Support

- RFC2684 Bridge and Routed LLC and VC Mux support
- RFC2364 PPPoA Client support
- RFC2516 PPPoE Client support
- RFC2225/RFC1577 Classical IP Support
- Transparent Bridge Support
- PAP/CHAP for Password Authentication Support

Network Support

- Static IP, Dynamic RIP routing support
- IP/TCP/UDP/ICMP/ARP Application Support
- Network Address Translation (NAT)
- Multi Range Port Mapping/Forwarding
- IGMP V1/2 Support
- DHCP Server/Relay/client
- Dynamic DNS support
- DNS Relay Agent
- DMZ support
- Single Session IP Sec and PPTP/L2TP VPN pass-through support
- PPP Always on with configurable timeout
- PPP Dial on Demand
- Universal Plug and Play Support (UPnP)

Firewall Security / NAT

- NAT for basic Firewall support
- Packet Filtering Firewall Support
- Stateful Packet Inspection Support
- URL Blocking Support
- Protection against Denial of Service attacks
- Password Authentication to Modem

Voice Support

- RFC3261 SIP Version 2 support
- RTP/RTCP (RFC1889, 1890)
- Dynamic Jitter Buffer (Adaptive)
- G.711 Annex1/2, G.729AB, G.723.1A, G.726 support
- Bellcore, ETSI caller ID detection/generation
- QoS Support TOS/Diff-serv
- V.21, V.27ter, V.29, V.17 Fax Relay
- T.38U Fax over IP protocol
- Conferencing Support
- Comfort Noise Generation
- Silence Suppression
- 32ms Echo Cancellation G.168-2005 Support
- DTMF Tone Generation/Detection
- DTMF In-Band and Outband RFC2833 and RTP Relay
- Telephony Features: CallerID, Call Waiting, Message Waiting, Three Way Conference call (Depends on IP Telephony Service Provider)
- Power Bypass PSTN Lifeline support
- Make a PSTN Call by Prefix number (Optional)
- PSTN Relay when VoIP Service is not available (Optional)
- Receive Incoming PSTN Phone Call (Optional)

WLAN (Wireless)

- IEEE 802.11, 802.11b and 802.11g compliant
- Supports 802.11g+ Packet Bursting and 4X Support increasing throughput support
- Conforms to Wireless Ethernet Compatibility Alliance (WECA) Wireless Fidelity (Wi-Fi™) Standard
- Supports 802.11b and 802.11g simultaneously
- Support seamless WLAN roaming
- Frequency Band:
 - 2412 - 2462 MHz (North America/FCC)
 - 2412 - 2472 MHz (ETSI/Europe)
 - 2412 - 2484 MHz (Japan)
 - 2457 - 2472 MHz (France)
 - 2457 - 2462 MHz (Spain)
- Support Direct Sequence Spread Spectrum (DSSS) technology
- Modulation : OFDM with BPSK, PBCC, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK
- Wireless Media Access Protocol- CSMA/CA with ACK
- Dynamic Rate Scaling from 54, 48, 36, 24, 12, 11, 9, 6, 5.5, 2, 1 Mb/s
- 64/128/256Bit WEP Encryption & WEP Support
- Radius Support for 802.1x
- Operating Range up to 300 Meters (Open Air)

Management Support

- Web Based HTTP management GUI Firmware upgrade
- TFTP Support for Firmware Upgrade
- Soft Factory Reset Button via Web GUI
- Diagnostic Test (DSL, OAM, Network, Ping Test)
- Telnet (Read Only) & Syslog support

Platform Support

- For Ethernet and Wireless LAN
- OS Independent for USB
- Windows 98SE/ME/2000/XP

Hardware

- Texas Instrument TNETD7300A Single Chip Network Processor/AFE/Line Driver Chipset
- Texas Instrument TNETV921 Voice DSP
- Marvell 88E6060-RCJ 5+1 Port 10/100 MAC/PHY Switch (Support Auto MDI/MDIX)
- Texas Instrument TNETW1130 based IEEE802.11b/g MiniPCI Daughter Board
- USB 1.1 Compliant
- 4 MB Flash ROM
- 16 MB SDRAM
- Dying Gasp Support
- ITU K.21 Support

Power Requirements

- Input Voltage: 12V DC +/- 10%
- Input Current: 0.8A

LED Indicators

- 1 x Internet Status LED (Green LED)
- 1 x Power LED (Green and Red LED)
- 1 x DSL/WAN Status LED (Green LED)
- 4 x Ethernet Link Status LED (Green LED)
 - **One user-configurable LAN/WAN port**
- 1 x USB Link Status LED (Green LED)
- 1 x VoIP ready LED (Green LED)
- 1 x Wireless LAN Link/Activity Status (Green) LED

External Connectors

- 1 x RJ-11 Telephone socket for ADSL line
- 1 x RJ-11 Telephone socket (FXS)
- 4 x RJ-45 10/100Base-T Ethernet LAN (AutoMDI/MDIX)
 - **One user-configurable LAN/WAN port**
- 1 x USB 1.1 Type B interface
- 1 x DC Jack for Power Input
- 1 x Factory Default Reset Button
- 1 x On/Off Power Switch
- 1 x Co-axial Connector for Detachable 180 ° Rotate-able 2.4Ghz 3 dBi Antenna

REGULATORY APPROVALS

- Europe: CE (EN55022:98/EN55024: 98), IEC950
- USA: FCC Part 15B, FCC Part 68, UL1950 3 rd edition

Environment

Temperature:

- Operating : 0 to 40 ° Celsius
- 32 to 104 ° Fahrenheit
- Non-Operating : -25 to 70 ° Celsius
- -13 to 158 ° Fahrenheit

Humidity:

- Operating: 30% to 80% Relative Humidity (Non-Condensing)
- Non-Operating: 30% to 95% Relative Humidity (Non-Condensing)

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