

## ADSL / ADSL2 / ADSL2+ with 4-port Ethernet Bridge/Router



### Overview

**8120-B1** is ADSL/ADSL2/ADSL2+ series of customer premise equipment that provide high-speed asymmetrical data transmission on a single twisted copper pair. The DSL line interface supports various ADSL standards, up to ADSL2+. At the DTE side the CPE provides four 10/100 Ethernet interface for easy connection to user's PC or LAN environment. With built-in IP routing, NAT and firewall, the unit serve as the gateway to the Internet world. **8120-B1** delivers broadband access for enterprises, telecommuters, home, and remote office workers with high-speed data transfer requirements.

### Feature

- Compliant with ITU-T G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (G.dmt.bis/ADSL2), G.992.5 (ADSL2+) and ANSI T1.413 Issue 2.
  - ADSL2/2+ Annex M supported on selected models which can support enhanced upstream rate up to 3 Mbps\*
  - Compatible and interoperable with major Central Office side ADSL DSLAM or Multi-service Access System
  - ADSL2+ compliance raises downward link rate up to 24 Mbps\*
- \*Actual maximum rate depends on network configuration and operating conditions
- Built-in four 10/100 Base-TX Ethernet port for PC or LAN connection, supports automatic 10/100M speed-sensing and MDI/MDI-X crossover detection-and-correction
  - RFC2684 /1483 bridged and routed PDU encapsulations over ATM over ADSL. Support bridging, MER, IPoA, PPPoA and PPPoE
  - Support Networking protocols such as PPP, IP routing, NAT, firewall, DHCP server/relay/client
  - Interchangeable between Bridge or Router mode
  - Support local and remote configuration and management through Web, Telnet or SNMP
  - Simple firmware upgrade via TFTP, FTP or HTTP

## ADSL / ADSL2 / ADSL2+ with 4-port Ethernet Bridge/Router

Model: 8120-B1

### Disclaimer

All specifications are subject to change without prior notice. The actual connection rates depend on your DSL service provider and line condition. © 2008 Innoband Technologies, Inc. Innoband logo is registered trademark of Innoband Technologies, Inc. In the United States and/or other countries. All other logos, brands or product names mentioned are trademarks or registered trademarks of their respective holders and are hereby recognized as such. All rights reserved.

## Hardware Specifications

### • Hardware Interface

- One RJ-11 ADSL2/2+ Connector
- Four 10/100 Base-TX Ethernet port, IEEE 802.3/3u, RJ-45 Connector
- One Reset Button for Factory Default Setting Recovery
- One Power Adaptor Connector
- Status LED Indicator

### • Power

- Input: 100 ~ 240 VAC, 50/60Hz
- Output: 5VDC, 1A

### • Physical Dimensions

- (W × D × H) 128 mm × 110 mm × 30 mm



### • Environment

- Temperature:
  - 0 to 40 degrees C (Standard Operating)
  - -40 to 70 degree C (Non-operating)
- Humidity:
  - 10% to 90% (Non-condensing, Standard Operating)
  - 5% to 95% (Non-condensing, Non-operating)

### • Certificates

- FCC Part 15, FCC Part 68

## Software

### • ATM

- ATM cells over ADSL, AAL5
- Supports 8 PVCs under bridge mode and 5 PVCs under router mode
- Supports UBR, CBR, rt-VBR, nrt-VBR and GFR traffic classes
- ADSL-aware CAC (Connection Admission Control)
- Support for F5 AIS, RDI, and loopback cells
- Payload encapsulation
  - RFC2684 / RFC1483, Multiprotocol Encapsulation over ATM Adaptation Layer 5
  - RFC2225 / RFC1577, Classical IP and ARP over ATM (IPoA)
  - RFC2364, PPP over AAL5 (PPPoA)

### • ADSL2+ standard

- Support ITU G.992.5 Annex A, L and M
- Maximum Rate: 24 Mbps for downstream and 3 Mbps for upstream

### • Bridging feature

- Support self-learning bridge (IEEE 802.1D Transparent Bridging)
- Support 4096 learning MAC addresses

### • Diagnostics

- Responds and initiates ATM OAM F4/F5 end to end, segment to segment loopback tests
- ADSL BER Test based on idle cell bit error detection
- RDI response to receiving AIS
- PPPoE server discovery
- Ping DNS server and Default Gateway
- Statistics display for ADSL PHY, ATM, LAN (USB, Ethernet) and WAN interfaces
- Diagnostics for multiple PVCs and PPPoE sessions

### • Routing feature

- Support NAPT
- Support ALGs (Application Level Gateways): such as NetMeeting, MSN Messenger, FTP, QuickTime, mIRC, Real Player, CuSeeMe, VPN pass-through IPsec VPN etc.
- Support DMZ
- Support Port forwarding
- Support Port Triggering
- Support UPnP IGD (Internet Gateway Device) with NAT traversal capability
- Support static routing, RFC1058 RIPv1, RFC1723 RIPv2
- Support DNS Relay/Dynamic DNS
- Support DHCP Server/Relay/Client
- Support IGMP Proxy v1/v2/v3
- Support IGMP v1/v2/v3 snooping
- Support IP/Bridge/802.1p QoS

### • Management

- Support TR-069
- User-friendly embedded web configuration interface with password protection
- Remote management access control
- Firmware upgrades through HTTP or TFTP
- SNMPv1/v2 agent with rfc2662 ADSL line MIB, rfc2515 ATM MIB, MIB-II
- Support diagnostic function (ADSL BER test /PPPOE server discovery etc.)
- Interface via serial port, telnet, or ssh
- Menu-driven CLI via serial port or telnet
- PSI configuration file upload and download
- Date/time update from SNTP Internet Time Server