

8520-C1 BROADBAND Wireless Gateway

ADSL 2+ 802.11g 4-port Ethernet Router

Overview

8520-C1 is a highly integrated ADSL 2+ home gateway that shall meet requirements for customer premise equipment today. With compliance with various DSL standards, it is designed to interoperate with DSLAMs from major vendors. This router provides four 10/100 Base-TX Ethernet interfaces and 802.11b/g WLAN for easy connection to user's PC or LAN environment. Featuring port to PVC binding function and layer 2/3 quality of service (QoS) mechanisms to ensure real-time deliveries of multimedia IPTV services. With embedded firewall 8520-C1 delivers secure broadband Internet access for enterprises, telecommuters, home, and remote office workers with high-speed data transmission requirement

Feature

- Compliant with ITU-T G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (G.dmt.bis/ADSL 2), G.992.5 (ADSL 2+) and ANSI T1.413 Issue 2; compatible and interoperable with major Central Office side ADSL DSLAM or Multi-service Access System
- Enhanced performance of Impulse Noise Protection to ensure video streaming over copper wires
- 802.11g WLAN supports up to 54Mbps transmission rate as well as Wi-Fi WEP/WPA/WPA2 for data security
- Firmware upgradeable through TFTP or HTTP
- Configuration and management locally or remotely via CLI/Telnet, web, SNMP or DSL Home™
- Build-in four-port 10/100 Base-TX Ethernet switch 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
- Supports 802.1Q tagged VLAN and 802.1p as well as standard compliant IP QoS for multiple services / triple play deployment



Hardware Specifications

• WAN Interface (ADSL line)

- One pair (2-wire) loop, 100 Ω line impedance with RJ-11 connector
- Compliances: ITU-T G.992.1, G.992.2, G.992.3, G.992.5 and ANSI T1.413 Issue 2

• LAN Interface

- Four 10 /100 Base-TX Ethernet ports, IEEE 802.3u, with RJ-45 connectors
- Automatic 10/100M speed-sensing and MDI/MDI-X crossover detection-and-correction
- Integrated IEEE 802.11b/g WLAN

• LAN Interface

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- Integrated IEEE 802.11b/g WLAN

• Environment

- Operation Temperature and Humidity: 0°C ~ 40°C, 5% ~ 95% (non-condensing)
- Storage Temperature and Humidity: -20°C ~ 85°C, 5% ~ 95% (non-condensing)

• Certificates

- FCC Part15, Part 68, UL

• Status Indicators

- **LAN (green)** - Continuous ON when any one of the Ethernet ports is active; blinking while transmitting / receiving data
- **WLAN (green)** - Continuous ON when wireless LAN is active; blinking while transmitting / receiving data
- **PWR (green)** - Continuous ON when power is properly connected
- **DSL (green)** - Continuous ON when ADSL link is up; blinking while handshaking with DSLAM
- **PPP (green)** - Continuous ON when data being transmitted

• OAM&P

- Local: Telnet or Web management via Ethernet
- Remote: Telnet or Web Management

• Power

- AC adapter: Input 100 ~ 240VAC, 50/60Hz; Output 12VDC 1.0A
- Power consumption: Less than 7 Watts

• Physical Dimensions

- (W x D x H) 222 mm x 159 mm x 32 mm

Software

• Security for Home Network

- NAT up to 512 sessions with extensive ALGs support
- Embedded SPI firewall; Intrusion detection system
- Detection and protection against IP spoofing, Port scan, DoS and other common types of attack
- Layer 2 or 3 packet filtering; Domain / URL filtering
- Parental control - time of date based rules
- DMZ support

• Wireless LAN

- WEP: 64 or 128 bits key length
- WPA (Wi-Fi Protected Access) and WPA2 in PSK mode or using EAP with RADIUS
- WME/WMM to support media service
- Access control list based on MAC address
- Virtual AP supports multiple BSSID
- Support WDS
- Wi-Fi Protected Setup for easy configuration

• Configuration and Network Management

- TR037-compliant auto-configuration using ILMI
- SNMP v1 , v2 and v3 agent - over IP, EOC and ILMI VCC
- SNMP MIB II, DSL MIB , ATOM MIB and WLAN MIB
- DHCP client, server and relay for IP management
- UPnP Internet Gateway Device (IGD v1)
- Clients for SNTP v4 and SMTP
- System log capability
- TFTP or HTTP for firmware upgrade and configuration
- Telnet with command line interface (CLI), web or SNMP for local or remote configuration and management; 8520-C1 additionally supports DSL Home™

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Note: Specifications are subject to change without notice

Software

• Bridging feature

- RFC2684 / 1483 bridged PDU encapsulation
- IEEE 802.1D transparent bridging and spanning tree protocol, with IGMP snooping option
- Supports 802.1p/Q prioritized tagged VLAN
- IP and PPPoE packet filtering
- ZIPB (Zero Installation PPP Bridge)
- Port to PVC binding

• ATM

- ATM cells over ADSL, AAL5
- Supports 8 PVCs under bridge mode and 5 PVCs under router mode
- Supports UBR, CBR, rt-VBR and nrt-VBR traffic classes
- SVC supports ATM forum UNI 3.0 / 3.1 and 4.0 signaling; ILMI 4.0
- Payload encapsulations:
 - RFC2684 / RFC1483, Multi-protocol Encapsulation over ATM Adaptation Layer 5
 - RFC2225 / RFC1577, Classical IP and ARP over ATM (IPoA)
 - RFC2364, PPP over AAL5 (PPPoA)

• Routing feature

- RFC2684 / 1483 bridged and routed PDU encapsulations
- PPPoE, IP over ATM, and PPP over ATM
- IP routing: static route, RIPv1 and RIPv2
- PAP and CHAP for user authentication in PPP connection
- NAT/PAT with extensive ALG support
- DNS relay
- IP multicasting, IGMPv1/v2 and IGMP proxy
- Multihoming, IP aliasing and unnumbered IP interfaces
- Virtual interface and secondary IP addresses
- Supports IP QoS per RFC2474/2475