



- Support both VDSL2 and ADSL/2/2+ (Dual Mode: P-870HW-51B v2)
- 802.11g Wireless Connectivity (802.11n)
- TR-069 Remote Management

VDSL2 High Speed Wireless Gateway

Benefits

VDSL2 High Speed and High Performance for Triple Play

P-870HW-51A/B v2 provides up to 100/45 (DS/US) Mbps data rate. VDSL2 can provide higher bandwidth, better efficiency and performance for service providers who plan to roll out multi-services. P-870HW-51A/B v2 takes the advantages of the existing copper line to provide much faster DSL connection for high end triple play, such as HDTV.

Dual Mode CPE with ADSL/2/2+ Fall Back (P-870HW-51B v2)

P-870HW-51B v2 can autosense the DSLAM settings and automatically switch to ADSL/2/2+ mode acting as regular ADSL2+ CPE. Dual Mode feature ensures the service provider can deploy one universal CPE to cover different loop ranges with VDSL2 or ADSL/2/2+.

IEEE 802.11g wireless (802.11n)

P-870HW-51A/B v2 compliant with the 802.11b/g wireless standard which allows data transmission speeds reach up to 54Mbps. Support up to 4 SSIDs and WPA/WPA2 for security. WMM offers better QoS for multimedia streaming applications.

Advance QoS Features

P-870HW-51A/B v2 supports advance QoS features to guarantee the quality of triple play services. The QoS features on P-870HW-51A/B v2 are deployed and field proven with IPTV and VoIP applications to offer the excellent customer experience.

TR-069 Remote Management

P-870HW-51A/B v2 supports standard TR-069 remote management. It is field proven for cutting down carrier's support and operation cost. It also enhances the trouble-free experience for customer and increase satisfaction.

VDSL2 Wireless Gateway

P870HW-51A
/B v2

Specifications

VDSL Compliance

- ITU.T G.993.1 VDSL1
- ITU.T G.993.2 VDSL2 ((Profile 8a, 8b, 8c, 8d, 12a, 12b and 17a support)
- Support VDSL band plan, Annex A, Annex B, 997, 998
- Support up to 100Mbps downstream and 45Mbps upstream
- SRA (Seamless Rate Adaption)
- UPBO (Upstream power back-off)
- VDSL OAM communication channels
- Dual latency support in VDSL mode
- INP value up to 16
- Trellis coding
- Broadcom PhyR PHY Level Retransmission Technology
- PTM mode
- PPPoE (RFC2516)

ADSL Compliance

- G.992.1(G.dmt) Annex A, B compliant
- G.992.2(G.lite), Annex A compliant
- ANSI T1.413 compliant
- G.992.3(ADSL2) compliant, Annex A, B, L & M
- G.992.5(ADSL2+) compliant, Annex A, B, & M
- Dual latency
- I.432 ATM physical layer compliant
- Reach-Extended ADSL (RE ADSL),
- SRA (Seamless Rate Adaptation)
- ADSL physical connection ATM AAL5 (ATM Adaptation Layer type 5)
- Support multi-protocol over AAL5 (RFC2684/1483)
- PPP over ATM AAL5 (RFC2364)
- PPPoE (RFC 2516)
- MAC Encapsulation Routing
- Support VC-based and LLC-based multiplexing
- Support up to 8 PVCs
- ATM traffic shaping (CBR, VBR-rt/nrt, UBR)
- I.610 F4/F5 OAM
- Broadcom PhyR, PHY Level Retransmission Technology

- Broadcom Nitro mode, ATM header compression

Wireless

- IEEE 802.11b/g Compliance (802.11n optional)
- Data Rates: 54Mbps and Auto fallback support
- Static and Dynamic WEP Key,(64/128 bit)
- MAC Address filter
- WPA/ WPA-PSK
- WPA2/WPA2-PSK
- Output power adjustable on GUI
- Auto Channel selection
- Multiple SSID up to 4
- WDS (Wireless Distribution System)
- Support WMM
- Multicast traffic pass-through
- WPS (Wireless Protected Setup)

Ethernet Switch

- IEEE 802.3 10BaseT Ethernet
- IEEE 802.3u 100BaseTx Ethernet
- Flow control in full duplex mode
- Back pressure in half duplex mode

Management

- Web
- CLI (Command Line Interpreter)
- SSH (Secure Shell function)
- Remote management for Web/telnet/ftp/SNMP/DNS/ICMP
- Remote management for Web/telnet/ftp w/ SSH
- Access control for remote management (LAN/WAN/WLAN)
- Configurable port number for remote management
- Firmware upgrade via Web/FTP/TFTP
- Text based configuration
- SNMP v1 & v2 with MIB II
- DSL Forum TR-069 (w/ HTTPS)
- DSL Forum TR-064
- DSL Forum TR-111
- Zyxel MAP configuration tool
- 802.1ag (Connectivity Fault Management)

Hardware Specifications

- WAN: one RJ11 interface for VDSL (over POTS)
- LAN: four 10/100 Auto MDI/MDI-X RJ-45 interface
- Wireless: one detachable 3dBi Antenna
- WLAN/WPS button: one real button for WLAN on-off and WPS configuration
- Power Switch: one push type button
- Reset: one restore factory default button
- Status LEDs indicator

Power Requirement

- 12V DC 1000mA
- Power supply:120V/230V/240V

Physical Specifications

- Dimensions: 189 (W) x 132 (D) x 40 (H) mm
- Weight: 366g

Environmental Specifications

- Operating Environment
- Temperature: 0°C ~ 40°C
- Humidity: 20%~85% RH(non-condensing)

Storage Environment

- Temperature: -20°C ~60°C
- Humidity: 20%~90% RH (non-condensing)

Certification

- EMC
- EN55022 Class B
- EN61000-3-2: 2000
- EN61000-3-3: 1995+A1:2001
- FCC Part 15 (Class B)

Safety

- CSA 60950-1
- UL 60950-1
- EN 60950-1: 2001+A11
- IEC 60950-1: 2001