



WiFi 6 AX6000 Bonded VDSL Gateway

2.5G Ethernet WAN | Ultra High Power 1W | TR-069/TR-181

PBL-6201

Comtrend's PBL-6201 WiFi 6 Bonded VDSL Gateway offers Gig+ Internet speeds with both fiber and/or copper deployments.

The PBL-6201 combines the latest in VDSL bonding (up to 35b), technologically superior WiFi 6, and ultra high 1W power output to overcome slow connections, WiFi dead zones, and WiFi interference.



Improved xDSL Link Rate Performance
Supports the latest G.vector and G.inp technologies to mitigate crosstalk and impulse noise resulting in greater throughput.



Premium Performance for Video Streaming
WiFi 6 (11ax) provides superior performance and coverage.



Connect More Devices Simultaneously
WiFi 6 is ideal for simultaneously running multiple high-bandwidth devices.



TR-069 Remote Management for Reduced Truck Rolls
Easily setup, manage, troubleshoot and control the CPE remotely.

WiFi 6 Features

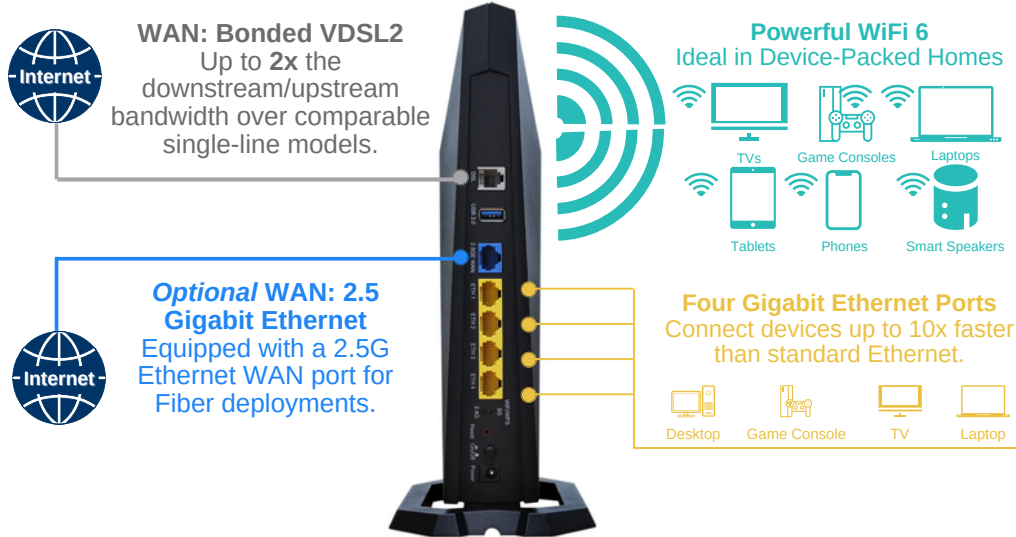
4X MORE CAPACITY
to handle more devices

50% INCREASED COVERAGE

40% FASTER THROUGHPUT

Battery Life of Devices UP





Specifications

Hardware

- 1 x RJ-14 port for VDSL2 (35b)/ADSL2+ (Annex A) Bonding and Single line
- 4 x GbE RJ-45 LAN ports (10/100/1000 Base-T auto-sense)
- 1 x 2.5GbE RJ-45 WAN port (10/100/1000/2500 NBase-T)
- 1 x Reset button
- 2 x WPS & WiFi On/Off button (2.4G and 5G)
- 4 x WiFi Antennas (4 dual band antenna)
- 1 x Power switch
- 1 x USB 3.0 Host

VDSL Features

- Supports VDSL profiles, 8a/b/c/d, 12a/b, 17a, 30a and 35b
- Support VDSL band plan, Annex A, 997, 998
- Packet Transfer Mode (PTM) up to 35b bonding
- US0 support
- Seamless Rate Adaption (SRA)
- PhyR support
- G.INP support
- G.vector support

ADSL Features

- T1.413, G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2) and G.992.5 (ADSL2+)
- Annexes A, L (Reach Extended ADSL2), and M (Enhanced Upstream Speed)
- Seamless Rate Adaption (SRA)
- Support VC-based and LLC-based multiplexing
- Support up to 16 PVCs
- ATM shaping: UBR/CBR/VBR-rt/VBR-nrt
- G.INP support

WLAN

- Up to AX6000Mbps PHY Rate
- Up to 1W Ultra High TX Power
- IEEE 802.11ax, 2.4GHz, 4T4R, backward compatible with 802.11n/g/b
- IEEE 802.11ax, 5GHz, 4T4R, backward compatible with 802.11ac/n/a
- WPA/WPA2/WPA3-PSK with TKIP & AES security type
- Multiple SSID
- MAC address filtering
- 802.1x radius supported
- Supports entire 5GHz band including Dynamic Frequency Selection (DFS) channels
- Supports band steering
- Supports beamforming

Gigabit LAN

- 10/100/1000 Base T, IEEE 802.3, IEEE 802.3u IEEE 802.3ab
- Support MDI/MDIX

2.5Gigabit WAN

- IEEE 802.3bz
- 2.5G BASE-T, auto-sense
- Support MDI/MDX

Networking Protocols

- MAP-T and MAP-E support
- RFC 2364 (PPPoA), RFC 2684 (RFC 1483) Bridge/Router, RFC 2516 (PPPoE); RFC 1577 (IPoA)
- IPoE, PPPoE, Bridge, IPoA, PPPoA
- PPPoE pass-through, Multiple PPPoE sessions on single WAN interface
- PPPoE Filtering of non-PPPoE packets between WAN and LAN
- Transparent bridging between all LAN and WAN interfaces
- 802.1p/802.1q VLAN Support, DSCP
- Spanning Tree Algorithm
- IGMP Proxy V1/V2/V3, IGMP Snooping V1/V2/V3, Fast leave
- Static route, RIP v1/v2, ARP, RARP, SNTP
- DHCP Server/Client/Relay
- DNS Proxy/Relay, Dynamic DNS, UPnP, DLNA
- Internet Printing Protocol
- IPv6 dual stack, IPv6 Rapid Deployment (6RD)

Management

- TR-069/TR-181/TR-104/TR-111/TR-143, SNMP, Telnet, Web-based management, Configuration backup and restoration
- Fine Point's TR-069 enhanced functionality is available on this model with a firmware upgrade
- NISUS TR-069 enhanced functionality is available on this model with a firmware upgrade
- Software upgrade via HTTP, HTTPS, TFTP or FTP

Firewall/Filtering

- Stateful Packet Inspection Firewall
- Stateless Packet Filter
- Parental Control
- URI/URL Filtering
- Denial of Service (DOS): ARP attacks, Ping attacks, Ping of Death, LAND,SYN, Smurf, Unreachable, Teardrop
- Port Scan Detection and Protection
- TCP/IP/Port/interface filtering rules Support both incoming and outgoing filtering

NAT/PAT

- Supports One to One, Many to One, Many to Many (Overload), Many to Many (No Overload) NAT
- NAT Loopback
- Port Triggering
- Port Forwarding (Virtual Server)
- Symmetric Port-Overloading NAT, Full-Cone NAT
- DMZ Host
- VPN Pass Through (PPTP, L2TP, IPSec)

USB

- File Sharing (DLNA & Samba)
- Print Server

Environment

- Operating temperature: 32–104°F (0–40°C)
- Relative humidity: 5–95% (non-condensing)

Note: Specifications are subject to change without notice.

