



PX3321-T1

AX3000 WiFi 6 GPON VoIP Gateway ONT with 1-port USB

The Zyxel PX3321-T1 AX3000 WiFi 6 GPON VoIP Gateway ONT with 1-port USB delivers high-speed fiber connectivity for service providers to upgrade their customers' home networks. Compliant with the latest WiFi 6 802.11ax standard, the PX3321-T1 provides your customers with superior WiFi service for all their devices — anywhere in their homes.



Gigabit data access via passive fiber



Remote management via OMCI and TR-069



WiFi 6 (11ax) 2x2+2x2 for superior performance and coverage



Support VoIP SIP protocol with three-way conference call

Specifications

System specifications

GPON compliance

- Complies with ITU-T G.984.1/G.984.2/G.984.3/G.984.4/G.988 standards
- DS/US speed: 2.488/1.244 Gbps
- Wavelength: 1490 nm (DS) & 1310 nm (US)
- Physical distance reach to 20 km
- Dynamic Bandwidth Allocation (DBA)

Networking features

- Full duplex IEEE 802.3x
- Bridge mode and router mode
- PPPoE (RFC 2516)
- MAC encapsulation routing/IPoE
- Network Address Translation (NAT)
- Dynamic Domain Name Service (DDNS)
- NAT virtual server (port forwarding)
- DHCP client/server/relay
- Static IP/Static route
- IP multicast
- 802.1Q VLAN
- IPv6
 - DHCP v6
 - SLAAC
 - DS-Lite IPv4/IPv6 dual stack

WLAN

- WiFi 6 (802.11ax) dual-band WiFi (AX3000)
 - 2.4 GHz – 2x2 MIMO, max data rate: 574 Mbps*
 - 5 GHz – 2x2 MIMO, max data rate: 2400 Mbps*
- Advanced Encryption Standard (AES)
- Wireless Protected Setup (WPS)
- WPA-PSK/WPA2-PSK/WPA3 (WiFi protected access)
- Auto channel selection
- Supports multiple SSID (up to 4)

Security

- Static Packet Inspection (SPI) firewall
- Access control
- DoS attack prevention
- Packet filter (MAC/URL/IP address)
- Parental control

VoIP

- Section Initiating Protocol (SIP), RFC3261
- SIP proxy
- Codec: G.711, G.726, G.722, G.729
- G.168 echo cancellation
- Fax/modem detection and pass-through
- Voice Active Detection (VAD)
- Comfort Noise Generator (CNG)
- Dynamic jitter buffer
- DTMF detection and generation
- DTMF relay by in-band and out-of-band (RFC2833, SIP Info)
- On hook, off hook and flash detection
- Caller ID
- Call transferring
- Call hold/Call retrieve
- Three way conference
- DNS SRV

Management

- Web (HTTP/HTTPS)
- TR-069
- OMCI

Maintenance

- System reboot
- Factory reset
- Firmware update
- Diagnostic
- System log
- NTP
- Configuration backup

Hardware specifications

- WAN/PON: One gigabit optical interface SC/APC
- LAN: 10/100/1000 Mbps Ethernet RJ-45 ports
- One FXS port RJ-11
- One USB 2.0 port

Button

- One power on/off button
- One power jack
- One reset button
- One WPS button

Antenna

- Two external antennas for WiFi 2.4 GHz
- Two external antennas for WiFi 5 GHz

Status LED indicators

- Power
- PON
- LOS
- Internet
- LAN 1 to 4
- 2.4 GHz/WPS
- 5 GHz
- Phone
- USB

Power consumption

- Power supply: DC 12 V/1.5 A
- Power consumption: 16 Watt max

Physical specifications

- Item dimensions (WxDxH): 206 x 140 x 47.5 mm (8.11" x 5.51" x 1.87")
- Item weight: 291 g (0.64 lb.)
- Packing dimensions (WxDxH): 276 x 264 x 55 mm (10.87" x 10.39" x 2.17")
- Packing weight: 598 g (1.32 lb.)

Environmental specifications

Operating environment

- Temperature: 0°C to 45°C (32°F to 113°F)
- Humidity: 10% to 90% (non-condensing)

Storage environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% RH (non-condensing)

Certification

- CE
- Anatel

Package contents

- Device
- Power adapter
- Ethernet cable
- Phone cable

* The maximum data rate is a theoretical value. The actual data rates depend on the network environment.

For more product information, visit us on the web at <https://service-provider.zyxel.com>

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Preliminary datasheet PX3321-T1

