



EX5512-T0

AX6000 WiFi 6 2.5G Ethernet Gateway

The Zyxel EX5512-T0 AX6000 WiFi 6 2.5G Ethernet Gateway supports the latest dual-band wireless WiFi 6 (11ax) technology for optimized bandwidth utilization to increase network capacity and the number of simultaneous streams, which allow more subscribers to enjoy superior connectivity with extremely low latency.

Benefits

WiFi 6 technology for superior lag-free performance

Supporting the latest WiFi 6 (11ax) standard, the EX5512-T0 delivers speeds up to 4800 Mbps* with 5 GHz 4x4 802.11ax and 1100 Mbps* with 2.4 GHz 4x4 802.11ax. The uplink MU-MIMO, Orthogonal Frequency Division Multiple Access (OFDMA) and beamforming technologies empower EX5512-T0 to deliver premium speed for multi-streaming data access and optimal WiFi experiences without dead zones.

Premium MPro Mesh™ for whole-home WiFi coverage

Featuring EasyMesh fully compliant Zyxel MPro Mesh™ Solutions, the EX5512-T0 enhances your subscribers' experience by providing self-adapting, easy-to-manage whole-home WiFi coverage while reducing your service OPEX.



WiFi 6 (11ax) 4x4+4x4 for superior performance and coverage



Zyxel MPro Mesh™ Solutions (compliant with EasyMesh standards)



2.5GbE WAN port for premium fiber-grade service



2.5GbE LAN ports for optimized bandwidth utilization



Remote management via TR-069



Zyxel-developed OPAL for superior flexibility and faster time to market



Supports CAF II performance testing

Dedicated 2.5GbE WAN and LAN port for Multi-Gig internet access

With one 2.5GbE WAN port, the EX5512-T0 is perfect for extending premium fiber service to subscribers' homes. Besides lightning-fast WiFi 6 technology and the standard three 1GbE LAN ports, the EX5512-T0 is equipped with one additional 2.5GbE LAN port that satisfies subscribers' bandwidth-intensive needs with optimized bandwidth utilization.

CAF II performance testing support

The EX5512-T0 supports optimized TR-143 protocol to facilitate FCC mandated CAF II performance testing.

TR-069/TR-181 remote management for lower OPEX

Compliant with TR-069/TR-181 standard, the EX5512-T0 significantly simplifies deployment complexity and lowers operating and maintenance costs with its remote management capabilities.

Zyxel OPAL firmware achieves superior flexibility and shortens time to market

Compliant with the same OPAL firmware trunk applied to all Zyxel CPEs, the EX5512-T0 inherits a rich, field-proven feature set for guaranteed same user experience after migrating to new devices.

Specifications

System specifications

Wireless standards

- IEEE 802.11 b/g/n/ax 2.4 GHz
- IEEE 802.11 a/n/ac/ax 5 GHz

Wireless transfer rates

- Transmit:
 - 802.11ax (2.4 GHz): up to 1148 Mbps*
 - 802.11ax (5 GHz): up to 4804 Mbps*

Wireless security

- WPA2-PSK

WLAN features

- Auto channel selection
- WiFi Multimedia (WMM)
- Wireless output power management
- Multiple SSIDs up to 4
- WiFi Protected Setup (WPS)
- Intra-BSS traffic block
- MAC address filtering
- WPS 2.0

Firewall

- IPv4/IPv6 firewall (Stateful Packet Inspection)
- Denial-of-Service (DoS) attack prevention
- ICMP blocking

Routing

- IPv4/IPv6
- NAT
- Port forwarding
- WAN connection type: DHCP, PPPoE
- DHCP option 60/121/125
- DHCP server on LAN
- IGMP v2/v3
- IGMP proxy
- Dynamic DNS

VLAN

- 802.1q tag/tag based VLAN

- VLAN to ETH port mapping
- Bridged/routed VLAN support

Management

- Web GUI (HTTP/HTTPS)
- TR-069/TR-098/TR-181
- Firmware upgrade through GUI/TR-069
- 2-tier level access and administration

Hardware specifications

WAN

- One 10/100/1000 Mbps/ 2.5GbE RJ-45 port

LAN

- One 10/100/1000 Mbps/ 2.5GbE RJ-45 port
- Three 10/100/1000 Mbps Ethernet RJ-45 ports

USB

- One USB 3.0 host

LED indicators

- Power
- Ethernet WAN
- Internet
- WiFi 2.4G
- WiFi 5G
- WPS

Buttons

- WPS
- Reset

Power consumption

- 12 V DC, 2.5 A
- 30 Watt max

Physical specifications

- Item dimensions (WxDxH): 175 x 60 x 245 mm (6.88" x 2.36" x 9.64")
- Item weight: 793 g (1.75 lb.)
- Packing dimensions (WxDxH): 245 x 266 x 73 mm (9.64" x 10.47" x 2.87")
- Packing weight: 1387 g (3.06 lb.)

Environment specifications

Operating environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% (Non-condensing)

Storage environment

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

Certification

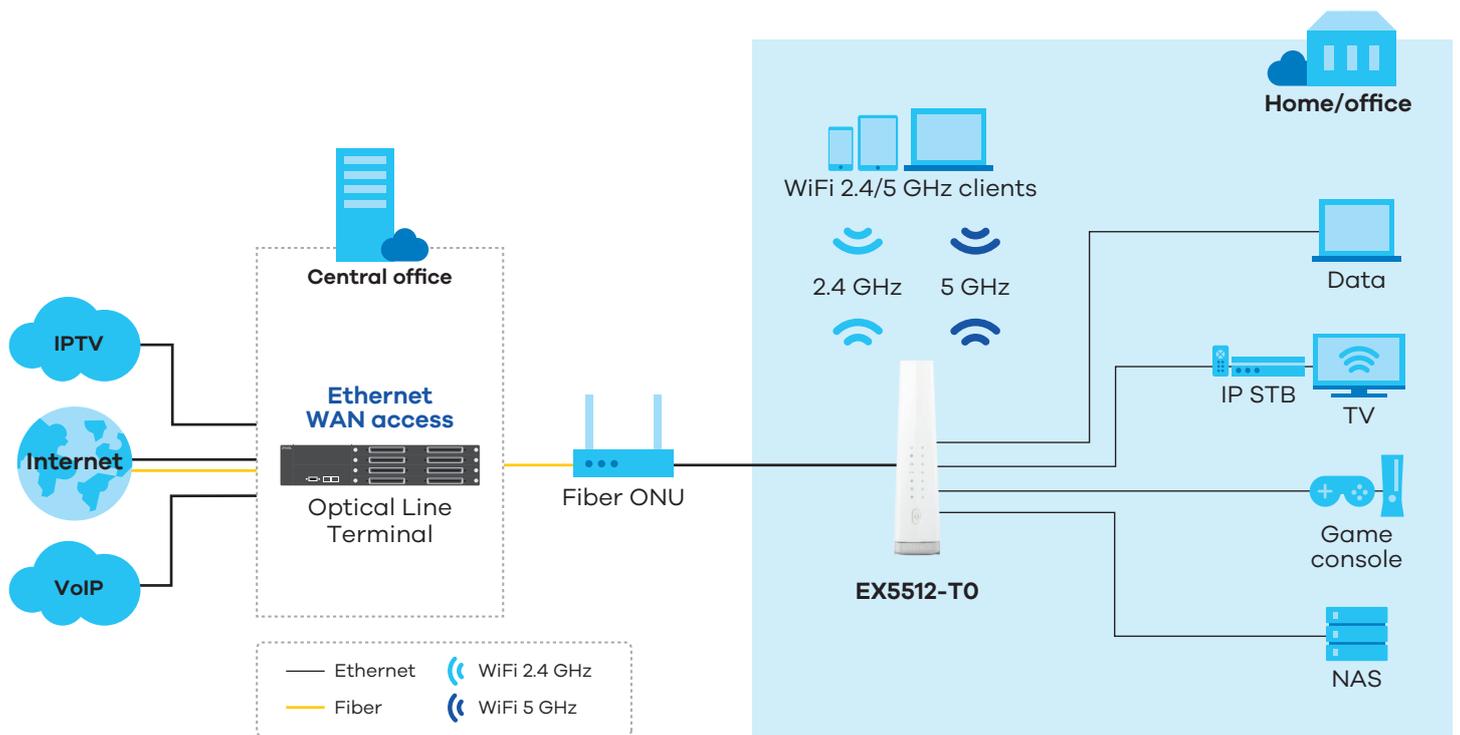
- FCC, IC

Package contents

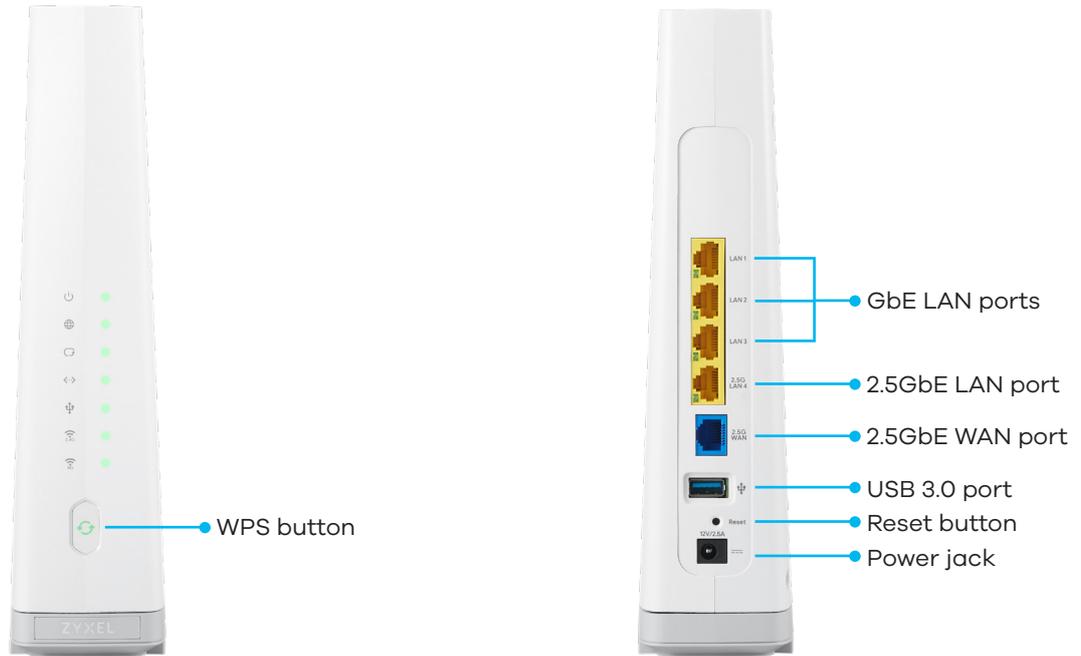
- Gigabit Ethernet Gateway
- Power adapter
- Ethernet cable
- Quick Start Guide

* The maximum wireless data transfer rate is derived from IEEE Standard 802.11 specifications. Actual data transfer rate will vary from network environment including: distance, network traffic, building site materials/construction, interference from other wireless devices, and other adverse conditions.

Application diagram



Hardware interface



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

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