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COMMUNICATIONS

WX5600-T0

Dual-Band Wireless AX6000 2.5G Extender

The Zyxel WX5600-T0 Dual-Band Wireless AX6000 2.5G Extender enables carrier-grade performance. As a key component of the Zyxel MPro Mesh® Solutions, the WX5600-T0 delivers smooth data streaming and seamless roaming for whole-home Wi-Fi coverage.

Benefits

Wi-Fi 6 technology for superior lag-free performance

Supporting the latest Wi-Fi 6 (11ax) standard, the WX5600-T0 delivers speeds up to 4800 Mbps* with 5 GHz 4x4 802.11ax and 1200 Mbps* with 2.4 GHz 4x4 802.11ax. The uplink MU-MIMO, Orthogonal Frequency Division Multiple Access (OFDMA) and beamforming technologies empower WX5600-T0 to deliver premium speed for multi-streaming data access and optimal Wi-Fi experiences without dead zones.

Premium MPro Mesh® for whole-home Wi-Fi coverage

Featuring EasyMesh fully compliant Zyxel MPro Mesh® Solutions**, the WX5600-T0 enhances your subscribers' experience by providing self-adapting, easy-to-manage whole-home Wi-Fi coverage while reducing your service OPEX.

Seamless whole-home fiber-grade service

With two 2.5GbE LAN ports, the WX5600-T0 works seamlessly with any 2.5GbE Wi-Fi 6 gateways to extend the reach of a premium Wi-Fi network anywhere in your customers' homes, satisfying their demands for bandwidth-intensive applications.

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AX 802.11 Wi-Fi 6 (11ax) 4x4+4x4 for superior performance and coverage

Zyxel MPro Mesh® Solutions (compliant with EasyMesh standards)

2.5GbE LAN ports for optimized bandwidth utilization

Remote management via TR-369/TR-069/TR-181

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

TR-369/TR-069 remote management for lower OPEX

Compliant with TR-369/TR-069 standards, the WX5600-T0 significantly simplifies deployment complexity and lowers operating and maintenance costs. The additional support to the latest TR-181 issue-2 data model also enhances service providers' visibility on subscriber LAN networks to offer improved customer assistance.

Zyxel OPAL firmware achieves superior flexibility and shortens time to market

Compliant with the same OPAL firmware trunk applied to all Zyxel CPEs, the WX5600-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 a/n/ac/ax 5 GHz
- IEEE 802.11 b/g/n/ax 2.4 GHz

Wireless speed
- Transmit/receive
  - 4800 Mbps* for 5 GHz
  - 1200 Mbps* for 2.4 GHz

Wireless security
- WPA2-PSK/WPA3-SAE

Wireless features
- Auto channel selection
- MU-MIMO and beamforming
- Video-grade QoS
- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)
- MAC address filtering
- Multiple SSIDs up to 4
- AP/band steering

System management
- Web GUI (HTTP/HTTPS)
- BBF TR-069/TR-369 via TR-098/ TR-181 i2 data model
- Firmware upgrade via web GUI/ TR-369/TR-069 protocol
- Dual images system recovery
- DHCP client and IGMP snooping
- MPro Mesh® management

Operation mode
- AP/repeater

MPro Mesh® management
- Auto-configuration
- Band steering
- Multi-AP roaming
- Backhaul priority

Hardware specifications

LAN
- Two 2.5GbE RJ-45 ports with auto MDI/MDIX support

Wireless
- 5 GHz: four internal antennas
- 2.4 GHz: four internal antennas

Buttons
- Power on/off
- Reset
- WPS

LED indicators
- Power/system status
- Backhaul link quality
- Wi-Fi
- WPS

Power consumption
- 12 V DC 1.5 A
- 18 Watt max

Physical specifications
- Item dimensions (LxWxH): 128 x 40 x 128 mm (5.03" x 1.57" x 5.03")
- Item weight: 307.8 g (0.67 lb.)
- Packing dimensions (LxWxH): 261 x 136.5 x 44 mm (10.27" x 5.35" x 1.73")
- Packing weight: 619.8 g (1.37 lb.)

Environmental 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
- CE
- Safety
- ErP

Package contents
- Wireless extender
- Power adapter
- Ethernet cable
- Quick Start Guide

* The maximum wireless data 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.
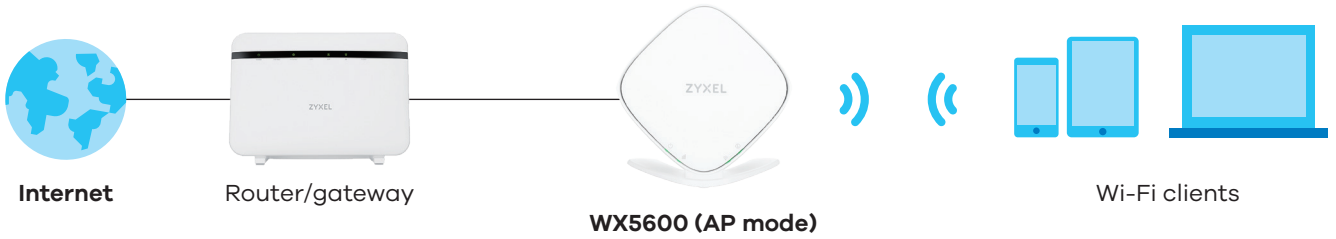
** Combining WX5600-T0 with the same Wireless Extender is advised for the ideal mesh network performance. Please contact us for detailed mesh function availability.
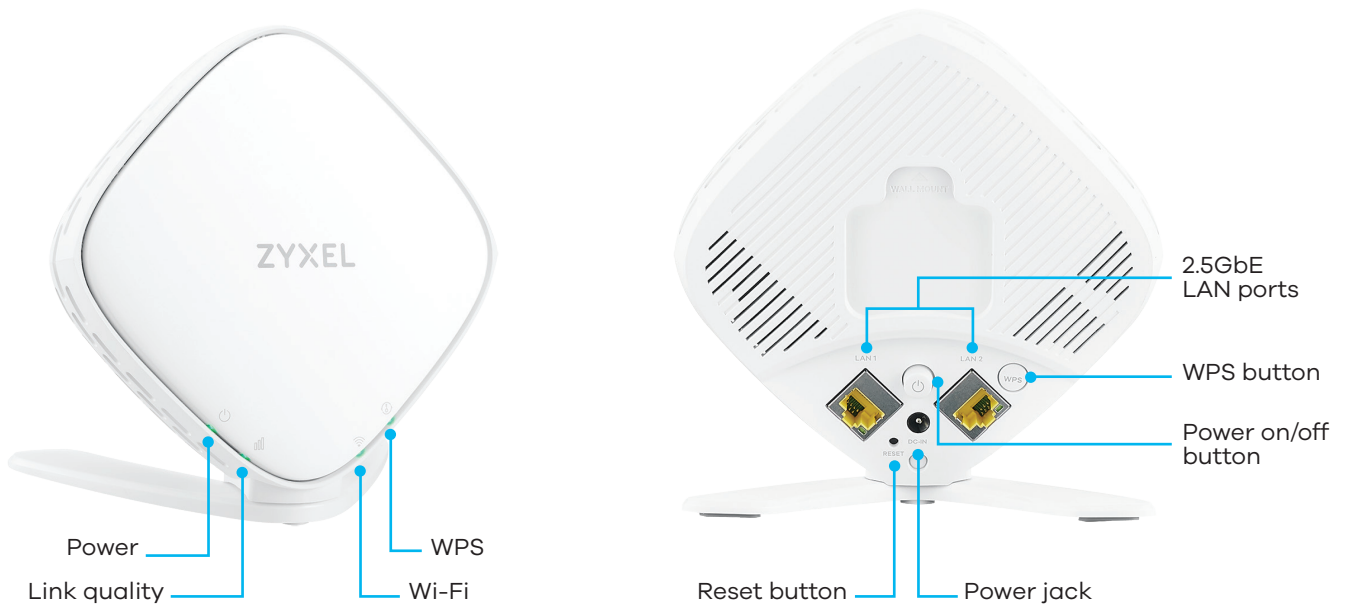
Application diagram

Scenario 1

Internet — Router/gateway))) (((WX5600 (RP mode)))) (((Wi-Fi clients

Internet   Router/gateway   **WX5600 (RP mode)**   Wi-Fi clients

Scenario 2

Internet — Router/gateway — WX5600 (AP mode)))) (((Wi-Fi clients

Internet   Router/gateway   **WX5600 (AP mode)**   Wi-Fi clients

—— Ethernet   ((Wi-Fi 2.4 GHz/5 GHz

Hardware interface

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Power
Link quality
Wi-Fi
WPS

2.5GbE LAN ports
WPS button
Power on/off button
Reset button
Power jack

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