ZYXEL
COMMUNICATIONS

EE4410-00

Tri-Band Wireless BE18000 2.5G Ethernet Gateway

The Zyxel EE4410-00 Tri-Band Wireless BE18000 2.5G Ethernet Gateway delivers lightning-fast speeds with symmetrical 2.5GbE WAN/LAN. Powered by Wi-Fi 7, it offers ultra-fast throughput, low latency, and wide coverage, ideal for next-gen smart homes and seamless high-bandwidth applications.

Benefits

Wi-Fi 7 technology for superior lag-free performance

Supporting the latest Wi-Fi 7 (802.11be) standard and rated as BE18000*, the EE4410-00 delivers Tri-band Wi-Fi with exceptional performance. With Multi-Link Operation (MLO) technology, the EE4410-00 not only optimizes reliability and maximizes data speeds but also significantly reduces latency. By intelligently utilizing multiple frequency bands simultaneously, MLO provides a smoother, low-latency experience—ideal for real-time applications such as gaming and video streaming.

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

Featuring Zyxel MPro Mesh® Solutions**, the EE4410-00 delivers self-adapting, easy-to-manage whole-home Wi-Fi coverage while reducing service OPEX.

Seamless whole-home fiber-grade service

With two 2.5GbE LAN ports, the EE4410-00 works seamlessly with any 2.5GbE Wi-Fi 7 gateways to extend the reach of a premium Wi-Fi network anywhere in your customers' homes, satisfying their demands for bandwidth-intensive applications.

- **BE 802.11** Wi-Fi 7 (11be) tri-band 2x2+4x4+4x4 for superior performance and coverage
- MLO (Multi-Link Operation) optimizes reliability and maximizes data speed
- High-power FEMs and antennas deliver stronger coverage
- Zyxel MPro Mesh® Solutions (compliant with EasyMesh standards)
- Remote management via TR-069/TR-369
- 2.5GbE WAN/LAN for symmetric high speed broadband access
- **OPAL** Zyxel-developed OPAL for superior flexibility and faster time to market

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

Compliant with TR-069/TR-369 standards, the EE4410-00 significantly simplifies deployment complexity and lowers operating and maintenance costs with its remote management capabilities. 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 EE4410-00 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/be 2.4 GHz
- IEEE 802.11 a/n/ac/ax/be 5 GHz
- IEEE 802.11 ax/be 6 GHz

Wireless transfer rates
- Transmit:
  - 802.11be (2.4 GHz): up to 688 Mbps
  - 802.11be (5 GHz): up to 5765 Mbps
  - 802.11be (6 GHz): up to 11530 Mbps

Wireless security
- WPA2-PSK/WPA3-SAE

Wireless features
- Auto channel selection
- Wi-Fi Multimedia (WMM)
- WPA2-PSK
- WPA3-SAE
- Wireless output power management
- Multiple SSID up to 4 for each band
- Intra-BSS traffic block
- MAC address filtering
- Wireless output power management
- Intra-BSS traffic block WPS 2.0
- Multi-link Operation (MLO)
- 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
- QoS support

VLAN
- 802.1q tag/tag based VLAN
- VLAN to ETH port mapping
- Bridged/routed VLAN support

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
- 2-tier level access and administration
- CAF II TR-143 speed test support

Hardware specifications

WAN/LAN
- One 1/2.5 GbE RJ-45 port

LAN
- One 1/2.5GbE RJ-45 port
- Two 1GbE RJ-45 ports

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

Buttons
- WPS
- Reset

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

Power consumption
- 12 V DC/3 A
- 36 Watt max

Physical specifications
- Item dimensions (LxWxH): 190.06 x 65 x 202.59 mm (7.48" x 2.56" x 7.98")
- Item weight: 951 g (2.10 lb.)
- Packing dimensions (LxWxH): 244 x 240 x 80 mm (9.61" x 9.45" x 3.15")
- Packing weight: 1371 g (3.02 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)
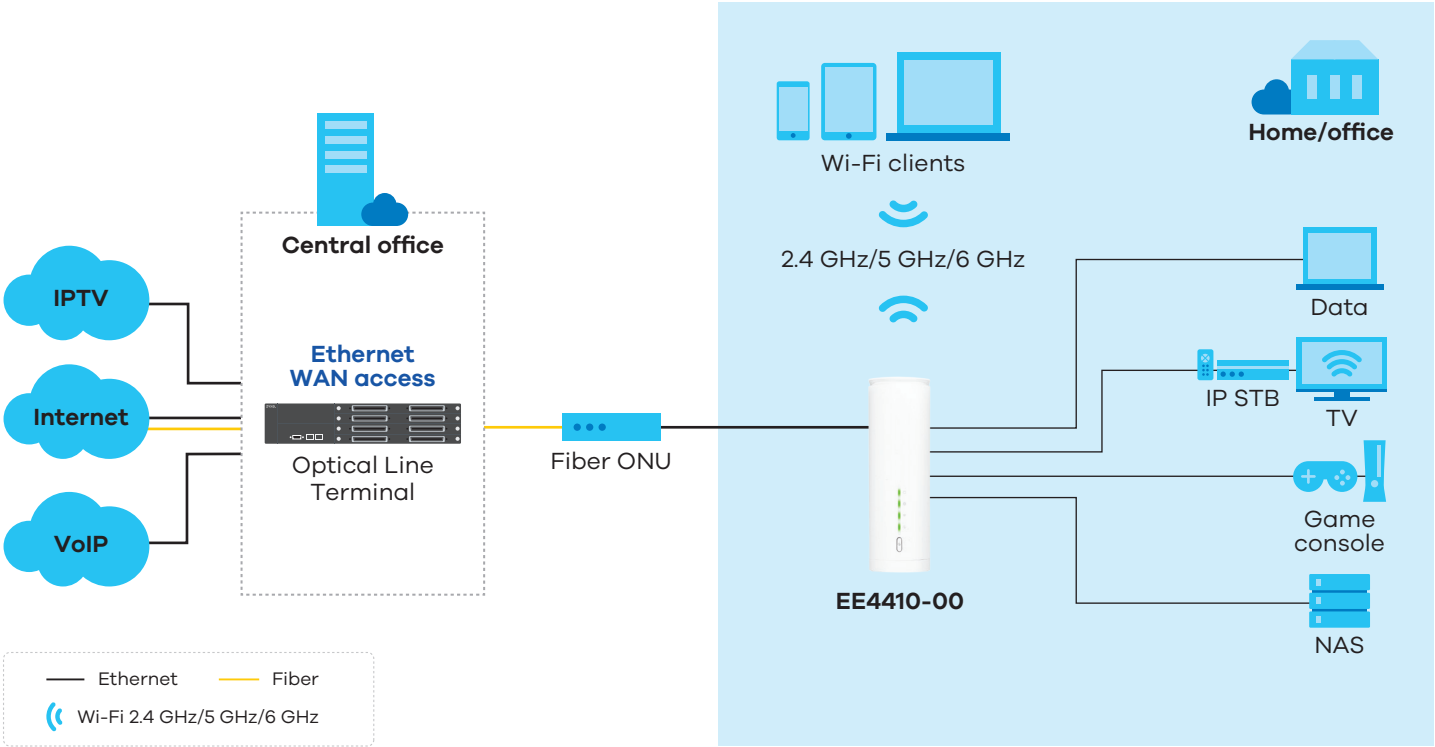- Humidity: 10% to 95% (Non-condensing)

Certification
- FCC
- ISED

Package contents
- Ethernet Gateway
- Power adapter
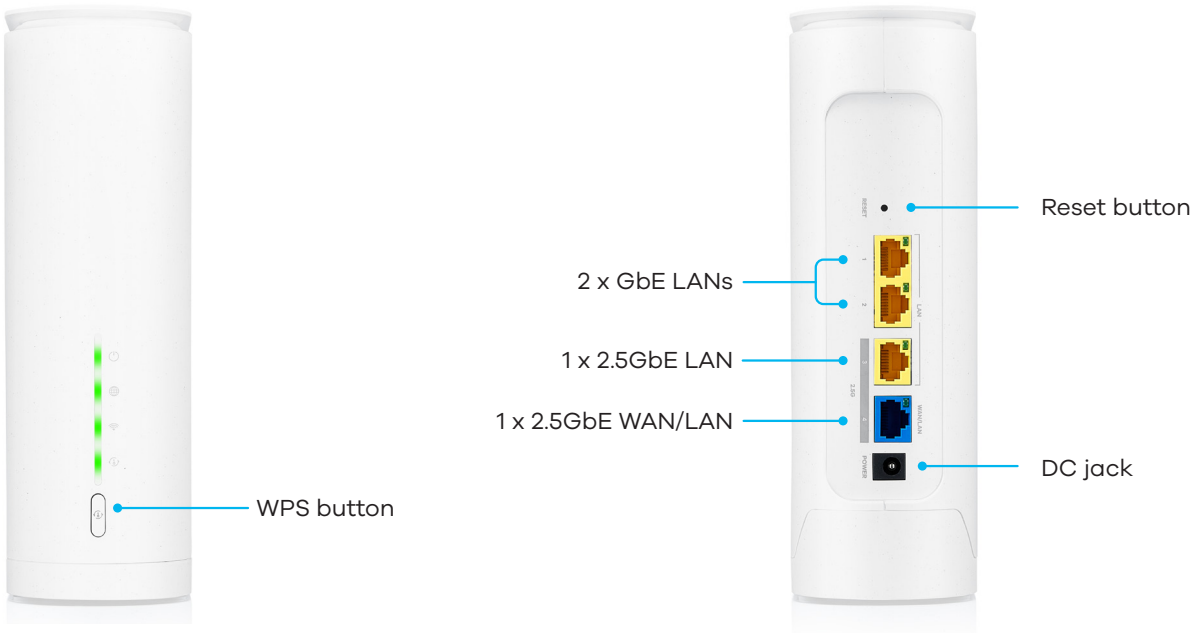- Ethernet cable
- Quick Start Guide

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*   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.

**   Pairing the EE4410-00 with a compatible wireless extender is recommended for optimal mesh network performance.

Application diagram

Central office

IPTV

Internet

VoIP

Ethernet
WAN access

Optical Line
Terminal

Fiber ONU

Wi-Fi clients

2.4 GHz/5 GHz/6 GHz

Home/office

Data

IP STB

TV

Game
console

NAS

EE4410-00

—— Ethernet   —— Fiber

((Wi-Fi 2.4 GHz/5 GHz/6 GHz

Hardware interface

WPS button

Reset button

2 x GbE LANs

1 x 2.5GbE LAN

1 x 2.5GbE WAN/LAN

DC jack

Datasheet EE4410-00

12/09/25