



EE6610-20

Tri-Band Wireless BE19000 10G Ethernet Gateway

The Zyxel EE6610-20 Tri-Band Wireless BE19000 10G Ethernet Gateway delivers ultra-premium connectivity with symmetrical 10GbE WAN and LAN for multi-gig services. Powered by Wi-Fi 7, it provides blazing-fast speeds, ultra-low latency, and expanded coverage for immersive smart home experiences. Built for bandwidth-intensive applications, it ensures seamless performance and premium connectivity for subscribers.

Benefits

Unleash peak performance with Wi-Fi 7 (802.11be)

Supporting the latest Wi-Fi 7 (802.11be) standard and rated as BE19000*, the EE6610-20 delivers tri-band Wi-Fi with exceptional performance. With Multi-Link Operation (MLO) technology, the EE6610-20 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 EasyMesh fully compliant Zyxel MPro Mesh Solutions**, the EE6610-20 enhances your subscribers' experience by providing self-adapting, easy-to-manage whole-home Wi-Fi coverage, while reducing your service OPEX.



Wi-Fi 7 (11be) tri-band 4x4+4x4+4x4 for premium performance and coverage



MLO (Multi-Link Operation) optimizes reliability and maximizes data speed



High-power FEMs and efficient antennas optimize coverage and performance



Zyxel MPro Mesh Solutions (compliant with EasyMesh standards)



Remote management via TR-369/TR-069



Wi-Fi management with Zyxel One



10GbE WAN and 10GbE LAN support symmetric data access



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

Wi-Fi management with Zyxel One™

The EE6610-20 is fully compatible with the Zyxel One app, enabling optimal product placement and delivering a seamless, reliable Wi-Fi experience across home and office environments. Its intuitive interface simplifies installation and streamlines network management, helping reduce operational complexity and service calls while improving overall customer satisfaction.



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

Compliant with TR-369/TR-069 standards, the EE6610-20 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 EE6610-20 inherits a rich, field-proven feature set for guaranteed same user experience after migrating to new devices.

Commitment to sustainability

The EE6610-20 is built with 100% recycled plastics*** and features an easily removable case, simplifying refurbishment to extend its lifespan. Its packaging is designed with recycled paper and printed using VOC-free vegetable oil ink, minimizing waste and harmful substances while eliminating single-use plastics.

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 1376 Mbps
 - 802.11be (5 GHz): up to 5764 Mbps
 - 802.11be (6 GHz): up to 11530 Mbps

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
- MAC address filtering
- Intra-BSS traffic block WPS 2.0
- Multi-link Operation (MLO)

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 43/60/125
- 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 (HTTPS)
- BBF TR-369/TR-069 via TR-181 i2 data model
- Firmware upgrade through GUI/TR-069 protocol
- 2-tier level access and administration
- CAF II TR-143 speed test support

Hardware specifications

WAN

- One 10GbE RJ-45 port

LAN

- One 10GbE RJ-45 port
- Three 2.5GbE RJ-45 ports

Wireless

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

LED indicators

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

Button

- WPS
- Reset

Power consumption

- 12 V DC/3.5 A
- 42 Watt max

Physical specifications

- Item dimensions (LxWxH):
180.5 x 74.0 x 231.5 mm
(7.11" x 2.91" x 9.11")
- Item weight: 1074 g (2.37 lb.)
- Packing dimension (LxWxH):
270 x 230 x 95 mm
(10.63" x 9.06" x 3.74")
- Packing weight: 1150 g (2.54 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

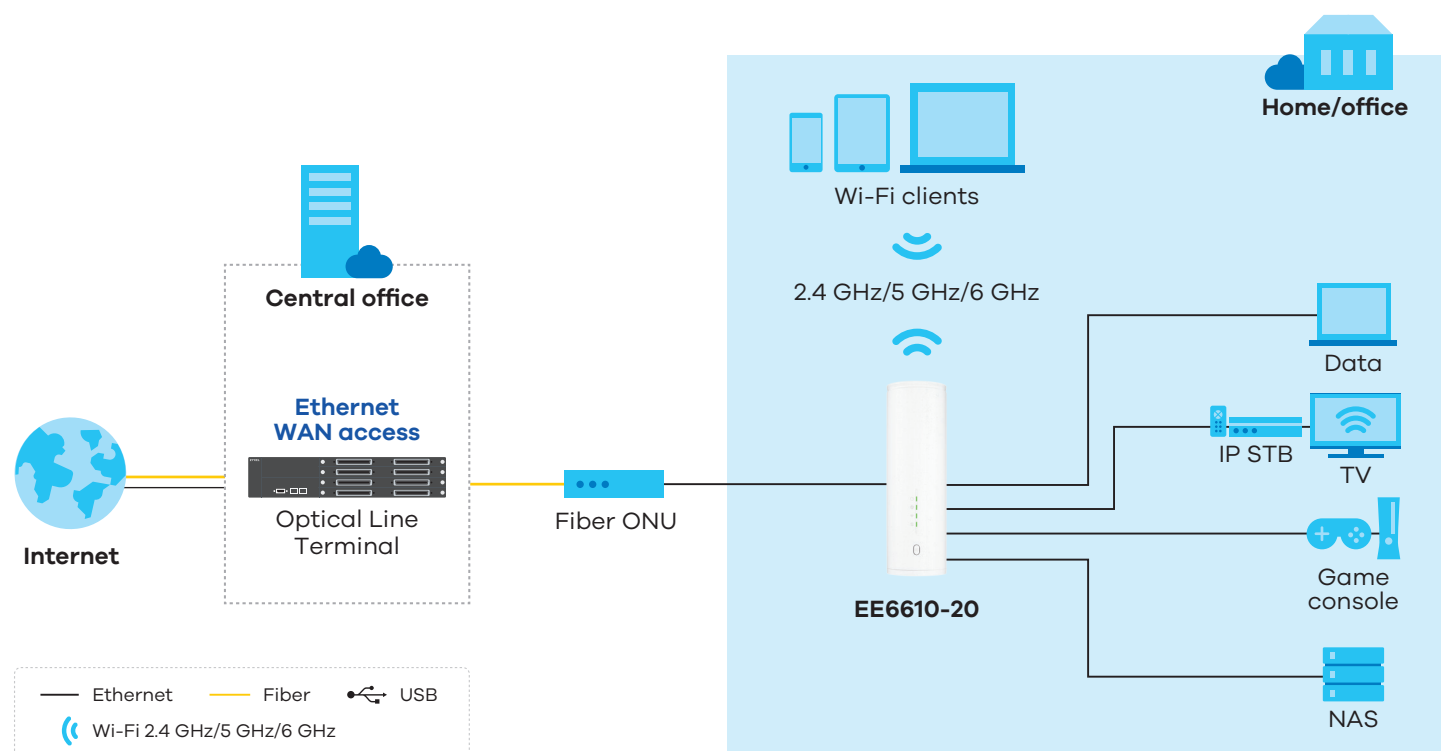
- FCC
- ISED

Package contents

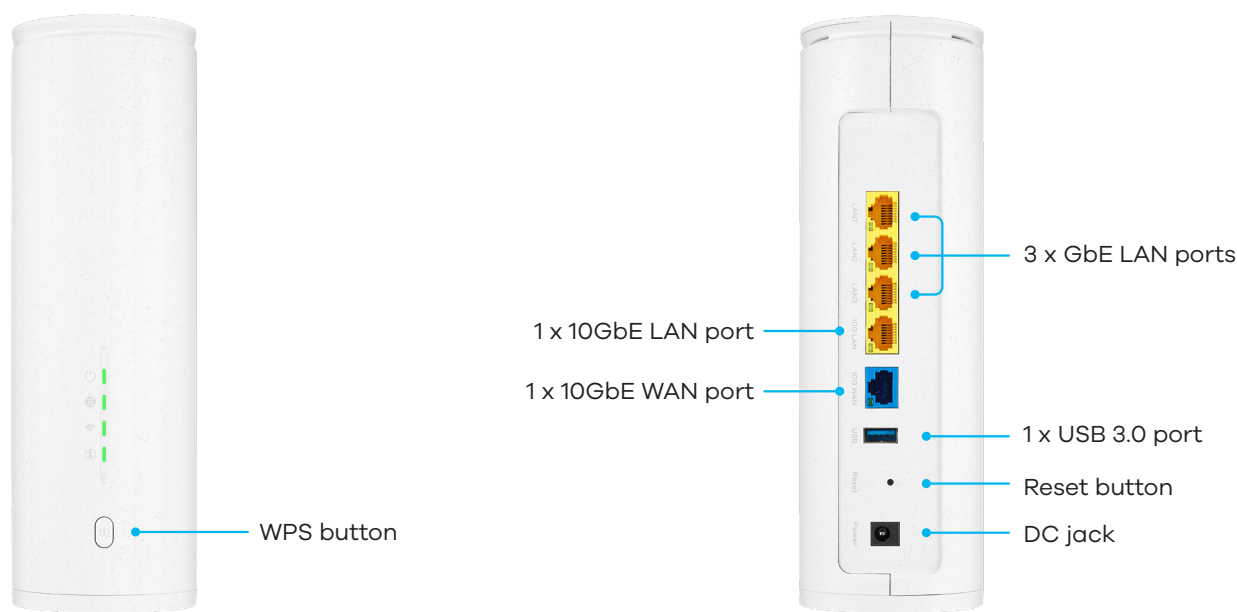
- Ethernet gateway
- Power adapter
- Ethernet cable
- Quick Start Guide

- * 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 EE6610-20 with a compatible wireless extender is recommended for optimal mesh network performance.
- *** 5% additives and solvents are necessary to be added to the recycled polymers to achieve the desired technical characteristics of the material.

Application diagram



Hardware description



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

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Datasheet [EE6610-20](#)

