



EE6701-00

Tri-Band Wireless BE19000 10G Ethernet VoIP Gateway

The Zyxel EE6701-00 Tri-Band Wireless BE19000 10G Ethernet VoIP Gateway with SFP+ leverages the latest wireless 802.11be (Wi-Fi 7) technology to optimize bandwidth utilization, effectively boosting network capacity with ultra-fast connectivity. This translates to an improved user experience with exceptionally low latency. Additionally, using the 10G internet port for Ethernet and fiber offers your subscribers a flexible and seamless wireless experience.

Benefits

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

Supporting the latest Wi-Fi 7 (802.11be) standard and rated as BE19000*, the EE6701-00 delivers tri-band Wi-Fi with exceptional performance. With Multi-Link Operation (MLO) technology, the EE6701-00 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. With zero-wait DFS, the EE6701-00 maintains uninterrupted data transmission while monitoring radar channels. Enhanced signal sensitivity extends coverage and minimizes dead zones, ensuring consistent performance across large service areas.



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



Zero-wait DFS for instant channel switching without downtime



Zyxel MPro Mesh® Solutions (Compliant with EasyMesh Standards)



Remote management via TR-069/TR-369



SFP+ cage enables 10G active fiber (P2P) and XGS-PON (P2M) deployments



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



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



Circular economy product design

Superior flexibility and faster time-to-market with Zyxel OPAL firmware

The EE6701-00 is available with Zyxel OPAL – our mature, modular software platform. The software incorporates a set of field-proven applications and allows you to easily manage your customer's premium services or seamlessly migrate and upgrade them to new technology – all with the advantage of reduced development time for you and great service for your customers.

MPro Mesh® kills the dead zones

Featuring EasyMesh fully compliant Zyxel MPro Mesh® Solutions**, the EE6701-00 enhances your subscribers' experience by providing self-adapting, easy-to-manage whole-home Wi-Fi coverage, while reducing your service OPEX.

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

Compliant with TR-369/TR-069 standards, the EE6701-00 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.

Dedicated Multi-Gig internet access and flexible WAN options

With one 10GbE WAN port, the EE6701-00 extends premium 10G service to subscribers' homes. In addition, the EE6701-00 built-in an SFP+ cage, offering flexible XGS-PON (P2M) or 10 Gigabit active fiber (P2P) configuration to meet bandwidth-intensive needs and seamlessly deployed in the existing copper or fiber network infrastructure.

Commitment to sustainability

The EE6701-00 is crafted from 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.

Power consumption monitoring

By integrating the power monitoring chip, the EE6701-00 ensures optimal energy efficiency, enhancing Wi-Fi connection performance. This feature facilitates effortless power consumption tracking for service providers, offering the ability to activate/deactivate power-saving mode and access current and historical device power consumption records.

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 a/n/ac/ax/be 6 GHz

Wireless transfer rates

- Transmit:
 - 802.11be (2.4 GHz): up to 1376 Mbps
 - 802.11be (5 GHz): up to 5760 Mbps
 - 802.11be (6 GHz): up to 11520 Mbps

Wireless features

- Auto channel selection
- Wi-Fi Multimedia (WMM)
- Multiple SSIDs up to 4
- One SSID for Mesh
- Wi-Fi Protected Setup (WPS)
- Intra-BSS traffic block
- MAC address filtering
- WPS
- Zero-wait DFS (ZWDFS)

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
- QoS support

VLAN

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

Management

- Web GUI (HTTP/HTTPS)
- TR-069 via TR-098/TR-181 i2 data model
- TR-369 via TR-181 i2 data model
- Firmware upgrade via web GUI/ TR-369/TR-069 protocol
- 2-tier level access and administration

VoIP/Phone features

- Codec: G.711u, G.711a, G.729, G.726-24, G.726-32, G.722
- DTMF tone: detection and generation
- Internal call
- Fax (G.711 Pass-through, T.38 Relay)
- Call waiting (reject waiting call, disconnect existing call, keep existing call)
- Call forwarding (unconditional, busy, no answer)
- Call transferring (attended, unattended)
- Caller-ID display (on the LCD of the telephone set)
- Call hold/recover
- Three-way conference
- Second call (adding an outgoing call)
- Switch between 2 ongoing calls

Hardware specifications

WAN

- One 1/2.5/5/10 GbE RJ-45 port
- One SFP+ cage

LAN

- One 1/2.5/5/10 GbE RJ-45 port
- Three 1/2.5GbE RJ-45 ports

VoIP

- Two FXS ports RJ-11 (6P2C)

Wireless

- 2.4 GHz: 4x4 internal antenna
- 5 GHz: 4x4 internal antenna
- 6 GHz: 4x4 internal antenna

USB

- One USB 3.0 host

LEDs indicators

- Front Panel
 - Power
 - Status
 - Internet
 - WPS and Wi-Fi
- Back Panel
 - LAN 1-4

Button

- Power jack
- Power on/off switch
- Reset button
- WPS/Wi-Fi on/off

Power consumption

- 12 V DC/4A
- 40 Watt max

Physical specifications

- Item dimensions (LxWxH): 190 x 80 x 234.5 mm (7.48" x 3.15" x 9.23")
- Item weight: 961.4 g (2.12 lb.)
- Packing dimensions (LxWxH): 272 x 120 x 240 mm (10.71" x 4.72" x 9.45")
- Packing weight: 1530 g (3.37 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: -40°C to 70°C (-40°F to 158°F)
- Humidity: 10% to 95% (Non-condensing)

Certification

- CE
- UKCA

Package contents

- Device
- Power adapter
- Ethernet cable
- Quick Start Guide
- Safety warning card

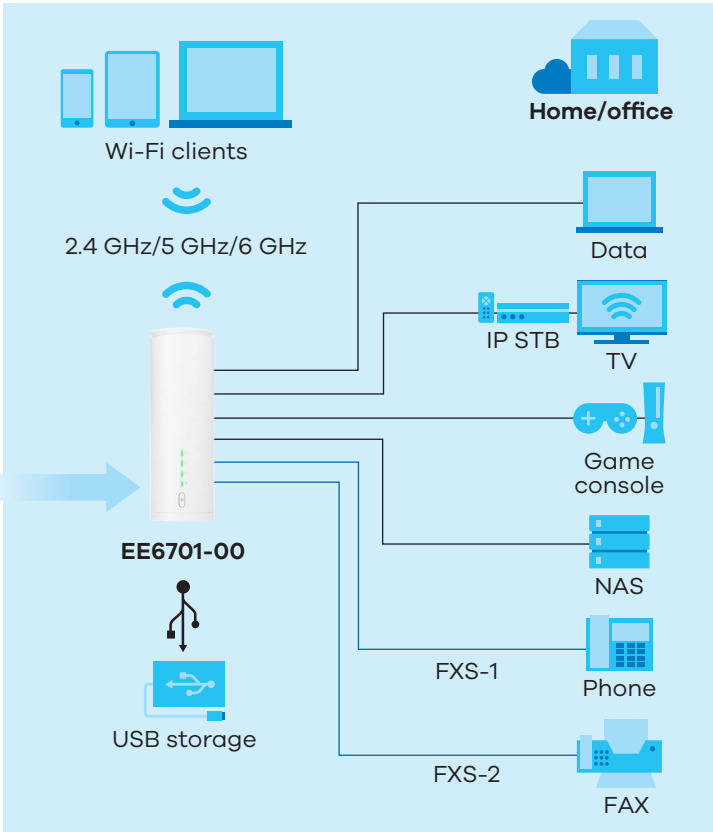
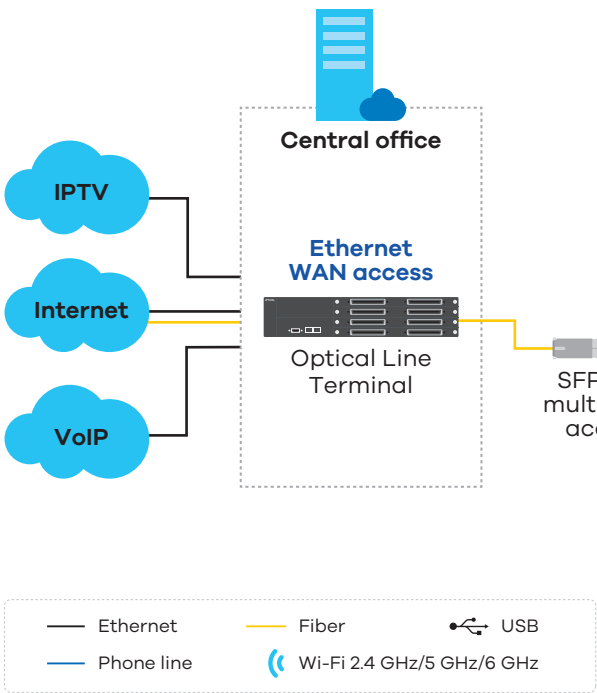
* The maximum wireless data transfer rate is derived from IEEE Standard 802.11 specifications. Actual data transfer rate will vary from network environment including distance, network traffic, building site materials/construction, interference from other wireless devices, and other adverse conditions.

** Pairing EE6701-00 with a compatible wireless extender is recommended for optimal mesh network performance.

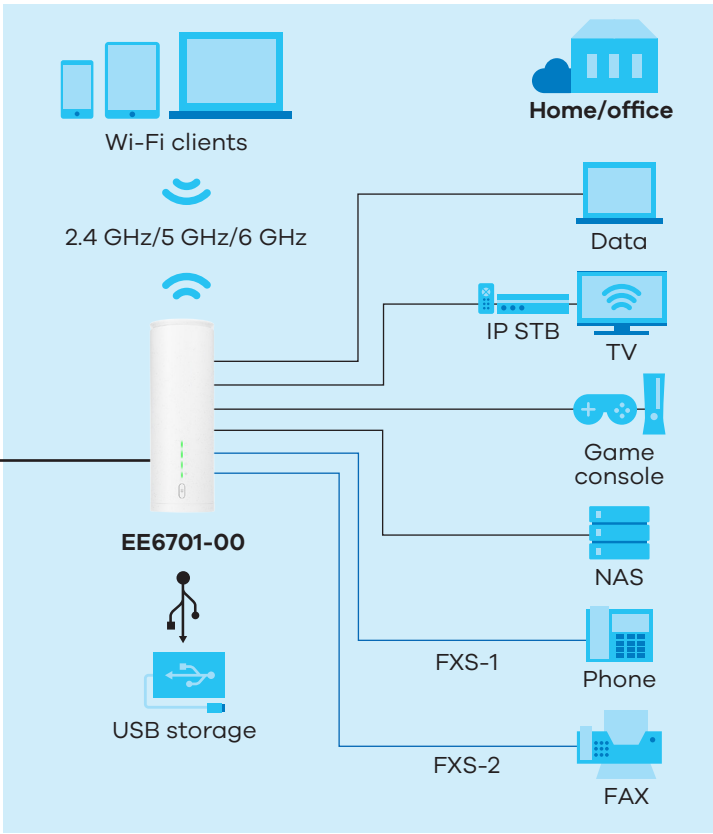
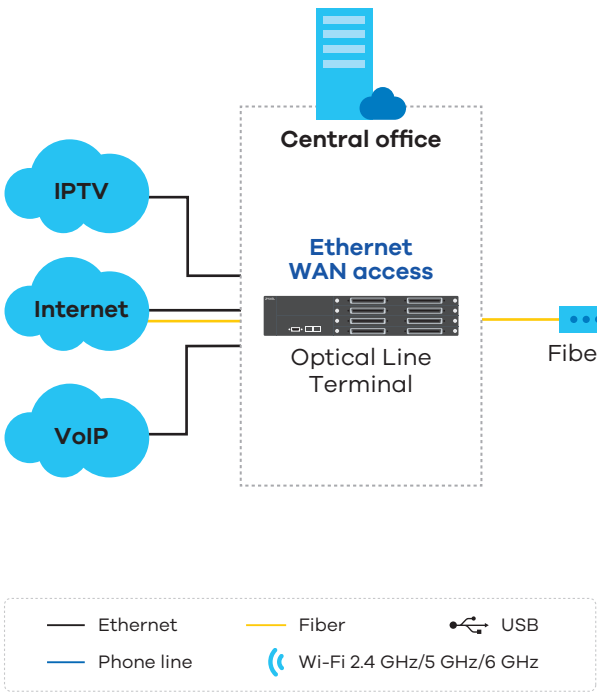
*** 5% additives and solvents are necessary to be added to the recycled polymers to achieve the desired technical characteristics of the material.

Application diagram

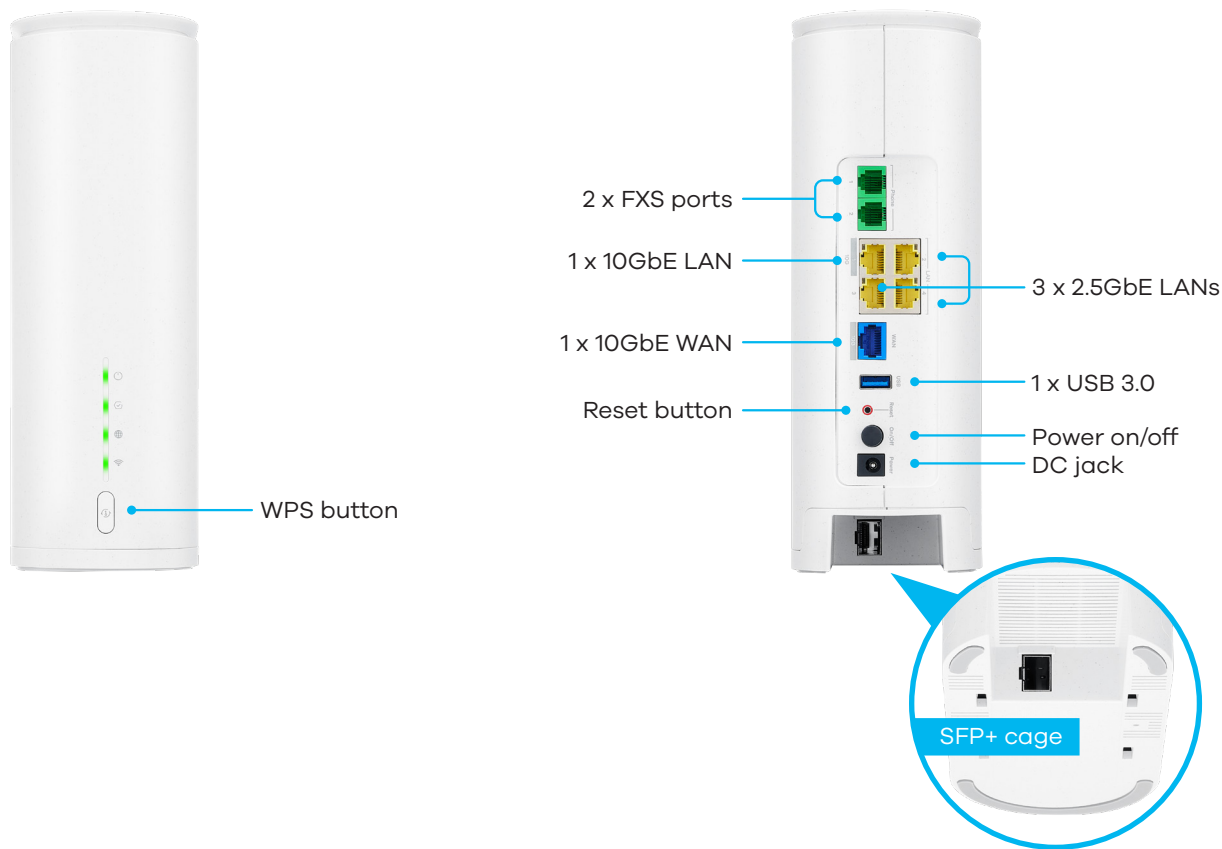
Active/passive fiber application



Ethernet application



Hardware interface





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

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Datasheet [EE6701-00](#)



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