



EE3101-00

Dual-Band Wireless BE3600 2.5G Ethernet VoIP Gateway

The Zyxel EE3101-00 Dual-Band Wireless BE3600 2.5G Ethernet VoIP Gateway delivers service providers' ultimate 2.5G internet speed. Compliant with the latest wireless 802.11be (Wi-Fi 7) technology, the EE3101-00 is engineered to boost network capacity with ultra-fast connectivity and low latency. It provides superior Wi-Fi service for all devices—anywhere in their home.

Benefits

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

Supporting the latest Wi-Fi 7 (802.11be) standard and rated as BE3600*, the EE3101-00 delivers dual-band Wi-Fi with exceptional performance. With Multi-Link Operation (MLO) technology, the EE3101-00 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. It also increases signal sensitivity and delivers broader coverage, reducing dead zones and improving performance across larger spaces.



Wi-Fi 7 (11be) dual-band 2x2+3x3 (2 spatial streams) for superior performance and coverage



Remote management via TR-069/TR-369



Zyxel MPro Mesh® Solutions (Compliant with EasyMesh Standards)



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



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

Featuring EasyMesh fully compliant Zyxel MPro Mesh® Solutions**, the EE3101-00 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-069/TR-369 standards, the EE3101-00 significantly simplifies deployment complexity and lowers operating and maintenance costs with its remote management capabilities. The additional support for 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 EE3101-00 inherits a rich, field-proven feature set for guaranteed same user experience after migrating to new devices.

Commitment to sustainability

The EE3101-00 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

Wireless transfer rates

- Transmit:
 - 802.11be (2.4 GHz): up to 688 Mbps
 - 802.11be (5 GHz): up to 2882 Mbps

Wireless features

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

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
- Zyxel One APP management

MPro Mesh® features

- Auto-configuration
- Band steering
- Multi-AP roaming
- Backhaul priority

VoIP/Phone features

- Codec: G.711u, G.711a, G.729, G.726-24, G.726-32, G.722

- DTMF tone: detection and generation
- 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

LAN/WAN

- One 1/2.5 GbE RJ-45 port

LAN

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

VoIP

- One FXS port RJ-11 (6P2C)

Wireless

- 2.4 GHz: 2x2 internal antenna
- 5 GHz: 3x3 (2 spatial streams) internal antenna

USB

- One USB 2.0 host

LED indicators

- Front panel
 - Power
 - WAN
 - Internet
 - LAN
 - WPS and Wi-Fi 2.4 GHz/5 GHz
 - FXS

Button

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

Power consumption

- 12 V DC/2 A
- 24 Watt max

Physical specifications

- Item dimensions (LxWxH):
180 x 50 x 160 mm
(7.09" x 1.97" x 6.30")
- Item weight: 370 g (0.82 lb.)
- Packing dimension (LxWxH):
283 x 178 x 67 mm
(11.14" x 7.01" x 2.64")
- Packing weight: 740 g (1.63 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
- UKCA

Package contents

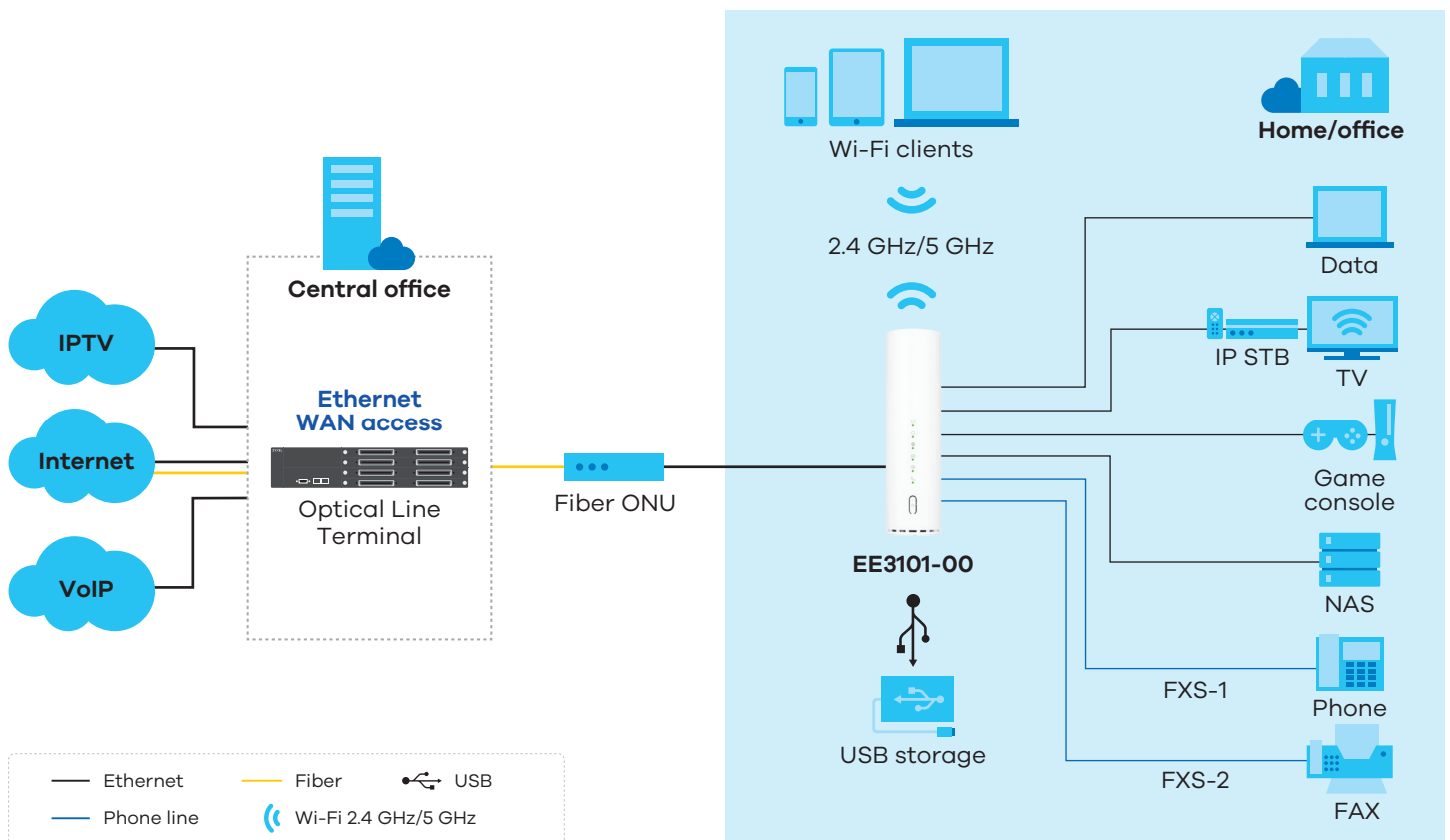
- Device
- Power adapter
- Ethernet cable
- Quick Start Guide
- Safety warning card

* The maximum data rate is a theoretical value. The actual data rates depend on the network environment.

** Pairing the EE3101-00 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.

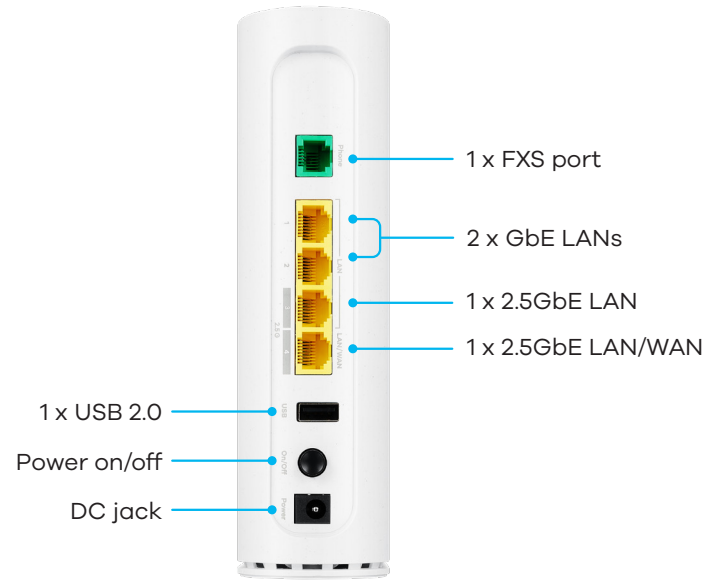
Application diagram



Hardware interface



WPS button



1 x FXS port

2 x GbE LANs

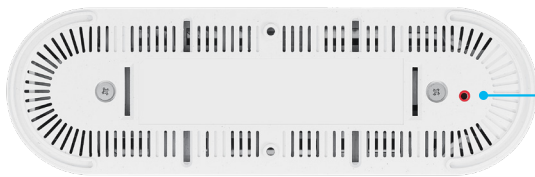
1 x 2.5GbE LAN

1 x 2.5GbE LAN/WAN

1 x USB 2.0

Power on/off

DC jack



Reset button

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

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Datasheet [EE3101-00](#)



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