



WE4600-00

Tri-Band Wireless BE19000 2.5G Extender

The Zyxel WE4600-00 Tri-Band Wireless BE19000 2.5G Extender enables grade performance, unleashing the fastest download speeds with 2.5GbE ports. As a key component of the Zyxel MPro Mesh® Solutions, the WE4600-00 delivers smooth data streaming and seamless roaming for extreme Wi-Fi coverage.

Benefits

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

Supporting the latest Wi-Fi 7 (802.11be) standard and rated as BE19000*, the WE4600-00 delivers tri-band Wi-Fi with exceptional performance. With Multi-Link Operation (MLO) technology, the WE4600-00 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. The addition of extra antennas enables Zero-wait DFS, ensuring seamless connectivity by monitoring radar channels without interrupting data transmission. It also increases signal sensitivity and delivers broader coverage, reducing dead zones and improving performance across larger spaces.

MPro Mesh® kills the dead zones

Featuring EasyMesh fully compliant Zyxel MPro Mesh® Solutions**, the WE4600-00 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) 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)



2.5GbE LAN ports for optimized bandwidth utilization



Remote management via TR-069/TR-369



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



Circular economy product design



Zyxel OPAL firmware achieves superior flexibility and shortens time to market

The WE4600-00 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.

Seamless whole-home Multi-Gig service

With two 2.5GbE LAN ports, the WE4600-00 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.

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

Compliant with TR-369/TR-069, the WE4600-00 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.

Commitment to sustainability

The WE4600-00 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 802.11b/g/n/ax/be 2.4 GHz
- IEEE 802.11a/n/ac/ax/be 5 GHz
- IEEE 802.11a/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 5764 Mbps*
 - 802.11be (6 GHz): up to 11530 Mbps*

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 SSID up to 4
- AP/band steering
- WPS
- Zero-wait DFS (ZWDFS)

Management

- Web GUI (HTTP/HTTPS)
- TR-069 via 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

MPro Mesh® features

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

Hardware specifications

LAN

- Two 2.5GbE RJ-45 ports with auto MDI/MDIX support
- Configurable LAN as WAN port

Wireless

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

Buttons

- Power on/off
- Reset button
- WPS

LED indicators

- Power/system status
- Backhaul link quality
- Wi-Fi
- Mode (Router/Extender)

Power consumption

- 12 V DC/2.5 A
- 30 Watt max

Physical specifications

- Item dimensions (LxWxH): 160 x 60 x 150 mm (6.29" x 2.36" x 5.91")
- Item weight: 554.6 g (1.22 lb.)
- Packing dimensions (LxWxH): 253 x 169 x 95 mm (9.96" x 6.65" x 3.74")
- Packing weight: 957 g (2.11 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
- Safety
- ErP

Package contents

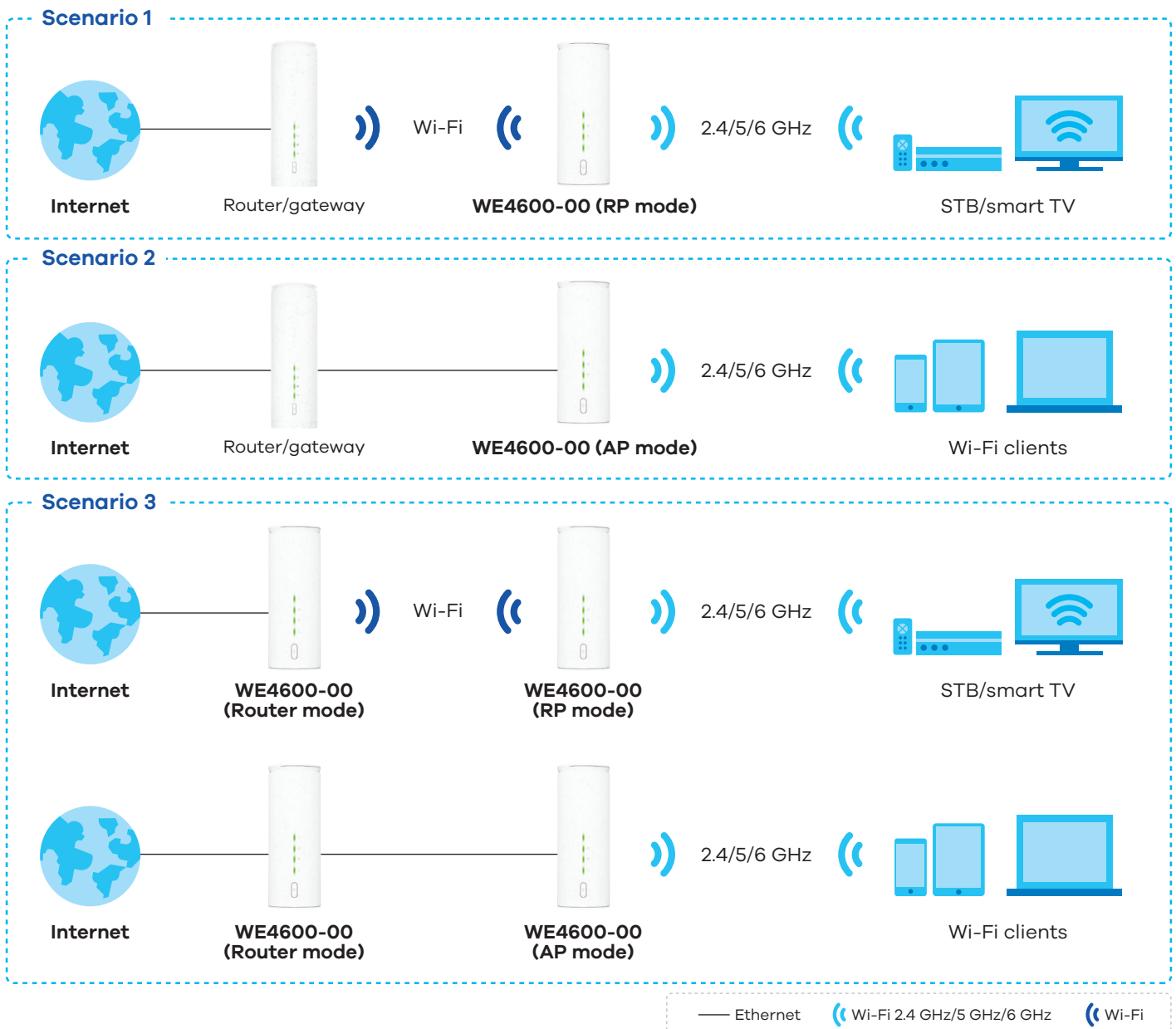
- Wireless extender
- Power adapter
- Ethernet cable
- Quick Start Guide

* 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.

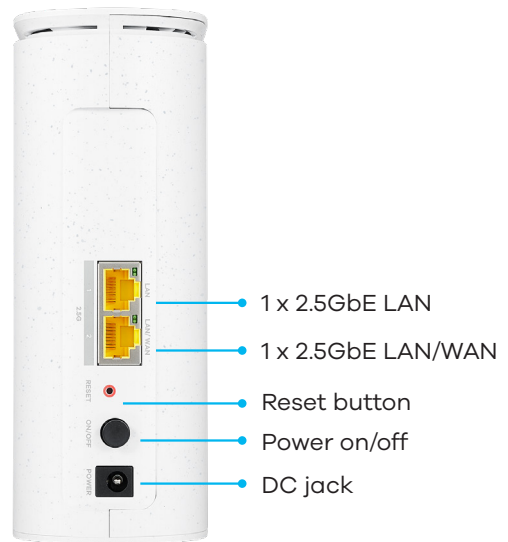
** Combining a compatible wireless gateway and the WE4600-00 is recommended for optimal mesh network performance.

*** 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



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

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