

Product Briefing

**Required*

*Color code	
*Model name	EE5301-00
*Product name	Dual-Band Wireless BE7200 10G Ethernet VoIP Gateway with SFP+
Slogan	
*Product introduction	The Zyxel EE5301-00 Dual-Band Wireless BE7200 10G Ethernet VoIP Gateway with SFP+ utilizes the latest wireless 802.11be (Wi-Fi 7) technology to deliver high-speed performance and optimize bandwidth utilization. Built-in an SFP+ cage, the EE5301-00 offers flexible XGS-PON (P2M) or 10 Gigabit active fiber (P2P) configuration, seamlessly integrating with existing copper or fiber network infrastructure to meet bandwidth-intensive needs.
*Key features	 Wi-Fi 7 (11be) dual-band 4x4 + 4x4 for superior performance and coverage
	 Zero-wait DFS for instant channel switching without downtime
	 Remote management via TR-069/TR-369
	 Zyxel MPro Mesh® Solutions (Compliant with EasyMesh Standards)
	 SFP+ cage enables up to 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
Benefits	<p>Unleash peak performance with Wi-Fi 7 (802.11be) Supporting the latest Wi-Fi 7 (802.11be) standard and rated as BE7200, the EE5301-00 delivers dual-band Wi-Fi with exceptional performance. With Multi-Link Operation (MLO) technology, the EE5301-00 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</p>

	<p>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.</p> <p>Premium MPro Mesh® for whole-home Wi-Fi coverage Featuring EasyMesh fully compliant Zyxel MPro Mesh® Solutions**, the EE5301-00 enhances your subscribers' experience by providing self-adapting, easy-to-manage whole-home Wi-Fi coverage, while reducing your service OPEX.</p> <p>Dedicated Multi-Gig internet access and flexible WAN options With one 10GbE WAN port, the EE5301-00 extends premium 10G service to subscribers' homes. In addition, the EE5301-00 built-in an SFP+ cage, offering flexible XGS-PON (P2M) or Gigabit active fiber (P2P) configuration to meet bandwidth-intensive needs and seamlessly deployed in the existing copper or fiber network infrastructure.</p> <p>TR-369/TR-069 remote management for lower OPEX Compliant with TR-369/TR-069 standards, the EE5301-00 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.</p> <p>Zyxel OPAL firmware achieves superior flexibility and shortens time to market Compliant with the same OPAL firmware trunk applied to all Zyxel CPEs, the EE5301-00 inherits a rich, field-proven feature set for guaranteed same user experience after migrating to new devices.</p> <p>Commitment to sustainability The EE5301-00 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.</p>
<p>Work with products</p>	

<p>Logos for Box</p>	
<p>*System specifications</p>	<p>Wireless standards</p> <ul style="list-style-type: none"> • IEEE 802.11 b/g/n/ax/be 2.4 GHz • IEEE 802.11 a/n/ac/ax/be 5 GHz <p>Wireless transfer rates</p> <ul style="list-style-type: none"> • Transmit: <ul style="list-style-type: none"> ■ 802.11be (2.4 GHz): up to 1376 Mbps ■ 802.11be (5 GHz): up to 5764 Mbps <p>Wireless features</p> <ul style="list-style-type: none"> • 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 • Zero-wait DFS (ZWDFS) <p>Firewall</p> <ul style="list-style-type: none"> • IPv4/IPv6 firewall (Stateful Packet Inspection) • Denial-of-Service (DoS) attack prevention • ICMP blocking <p>Routing</p> <ul style="list-style-type: none"> • 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 <p>VLAN</p> <ul style="list-style-type: none"> • 802.1q tag/tag based VLAN • VLAN to ETH port mapping • Bridged/routed VLAN support <p>Management</p> <ul style="list-style-type: none"> • Web GUI (HTTP/HTTPS) • TR-069 via TR-098/TR-181 i2 data model

	<ul style="list-style-type: none"> • TR-369 via TR-181i2 data model • Firmware upgrade via web GUI/TR-369/TR-069 protocol • 2-tier level access and administration • Zyxel One APP management <p>MPro Mesh® features</p> <ul style="list-style-type: none"> • Auto-configuration • Band steering • Multi-AP roaming • Backhaul priority <p>VoIP/Phone features</p> <ul style="list-style-type: none"> • 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
<p>*Hardware specifications</p>	<p>VoIP</p> <ul style="list-style-type: none"> • One FXS port RJ-11 (6P2C) <p>Wireless</p> <ul style="list-style-type: none"> • 2.4 GHz: 4x4 internal antenna • 5 GHz: 4x4 internal antenna <p>USB</p> <ul style="list-style-type: none"> • One USB 3.0 host <p>WAN</p> <ul style="list-style-type: none"> • One 1/2.5/5/10 GbE RJ-45 port • One SFP+ cage <p>LAN</p> <ul style="list-style-type: none"> • One 1/2.5/5/10 GbE RJ-45 port • Two 1GbE RJ-45 ports <p>LEDs indicators</p> <ul style="list-style-type: none"> • Front Panel <ul style="list-style-type: none"> ■ Power ■ Status ■ Internet ■ WPS and Wi-Fi 2.4 GHz/5 GHz • Back Panel <ul style="list-style-type: none"> ■ LAN 1~2

	<ul style="list-style-type: none"> ■ 10G LAN (LAN 3) <p>Button</p> <ul style="list-style-type: none"> • WPS • Wi-Fi on/off • Reset button • Power on/off switch • Power jack
*Power consumption	<ul style="list-style-type: none"> • 12 V DC/3 A • 36 Watt max
*Physical specifications	<ul style="list-style-type: none"> • Item dimensions (LxWxH): 190 x 65 x 200.5 mm (7.48" x 2.56" x 7.89") • Item weight: 848.8 g (1.87 lb.) • Packing dimension (LxWxH): 240 x 95 x 236 mm (9.45" x 3.74" x 9.29") • Packing weight: 1372 g (3.02 lb.)
*Environmental specifications	<p>Operating environment:</p> <ul style="list-style-type: none"> • Temperature: 0°C to 40°C (32°F to 104°F) • Humidity: 10% to 90% (Non-condensing) <p>Storage environment:</p> <ul style="list-style-type: none"> • Temperature: -30°C to 70°C (-22°F to 158°F) • Humidity: 10% to 95% (Non-condensing)
*Certification	<ul style="list-style-type: none"> • CE • UKCA
Package contents	<ul style="list-style-type: none"> • Device • Power adapter • Ethernet cable • Quick Start Guide • Safety warning card
*Application diagram	

Front panel	
Rear panel	
Others	<p>* 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.</p> <p>** Pairing the EE5301-00 with a compatible wireless extender is recommended for optimal mesh network performance.</p> <p>*** 5% additives and solvents are necessary to be added to the recycled polymers to achieve the desired technical characteristics of the material.</p>