



EX3501/EX3500-T0 Series

Dual-Band Wireless AX3000 Gigabit Ethernet IAD/Gateway

The Zyxel EX3501/EX3500-T0 Series Dual-Band Wireless AX3000 Gigabit Ethernet IAD/Gateway supports the latest WiFi 6 (11ax) technology for optimized bandwidth utilization to increase network capacity and the number of simultaneous streams, which allows more subscribers to enjoy superior connectivity with extremely low latency.

Benefits

WiFi 6 technology for superior lag-free performance

Supporting the latest WiFi 6 (11ax) standard, the EX3501/EX3500-T0 Series delivers speeds up to up to 2400 Mbps* in the 5 GHz band and 600 Mbps* in the 2.4 GHz band. The uplink MU-MIMO, Orthogonal Frequency Division Multiple Access (OFDMA) and beamforming technologies empower the EX3501/EX3500-T0 Series to deliver high-speed internet for multi-streaming data access and optimal WiFi experience without dead zones.

Quality of Service (QoS) support

With QoS features, service providers can freely design their QoS policies and prioritize mission-critical services such as IPTV on their service plan offerings. This improves network efficiency and productivity that enable service providers to offer a real multi-play solution to meet the residential user needs.



WiFi 6 (11ax) 2x2+2x2 for superior performance and coverage with 160 MHz in 5 GHz



Remote management via TR-069, TR-369 and TR-181 i2



NAT, firewall with SPI and DoS for better security



Comprehensive QoS for enhanced triple-play experience



Multiple SSIDs for various service deployment scenarios



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

TR-069/TR-369/TR-181 issue-2 remote management for lower OPEX

Compliant with TR-069/TR-369/TR-181 issue-2 standards, the EX3501/EX3500-T0 Series significantly simplifies deployment complexity and lowers operating and maintenance costs with its remote management capabilities.

Zyxel OPAL firmware achieves superior flexibility and faster time-to-market

Compliant with the same OPAL firmware trunk applied in all Zyxel CPEs, the EX3501/EX3500-T0 Series inherits a rich, field-proven feature set for guaranteed unchanged user experience even after migrating to the new devices.

Specification matrix

Model	EX3501-T0	EX3500-T0
Product name	Dual-Band Wireless AX3000 Gigabit Ethernet IAD	Dual-Band Wireless AX3000 Gigabit Ethernet Gateway
Hardware		
WAN interface	1 RJ-45/GbE	1 RJ-45/GbE
Ethernet port (10/100/1000)	3 RJ-45/GbE	3 RJ-45/GbE
FXS port	2	-
USB port	1 (USB 2.0)	1 (USB 2.0)
LED indicators	<ul style="list-style-type: none"> • Power • Internet • LAN • 2.4 GHz/WPS • 5 GHz/WPS • Phone (EX3501-T0) 	
Button	<ul style="list-style-type: none"> • Power on/off • WPS & WiFi on/off • Reset pinhole 	
System Specifications		
Firewall	<ul style="list-style-type: none"> • IPv4/IPv6 stateful Packet Inspection (SPI) • Denial-of-Service (DoS) attack prevention • ICMP blocking 	
WLAN features	<ul style="list-style-type: none"> • Auto channel selection • Wi-Fi Multimedia (WMM) • Wireless scheduling • Wireless output power management • Multiple SSID up to 4 • Wi-Fi Protected Setup (WPS) • Intra-BSS traffic block • MAC address filtering 	
Routing	<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 v1/v2 • IGMP proxy • Dynamic DNS 	
VPN pass-through	<ul style="list-style-type: none"> • PPTP • L2TP • IPSec 	
VLAN	<ul style="list-style-type: none"> • 802.1q tag/Tag based VLAN • VLAN to ETH port mapping • Bridged/routed VLAN support 	

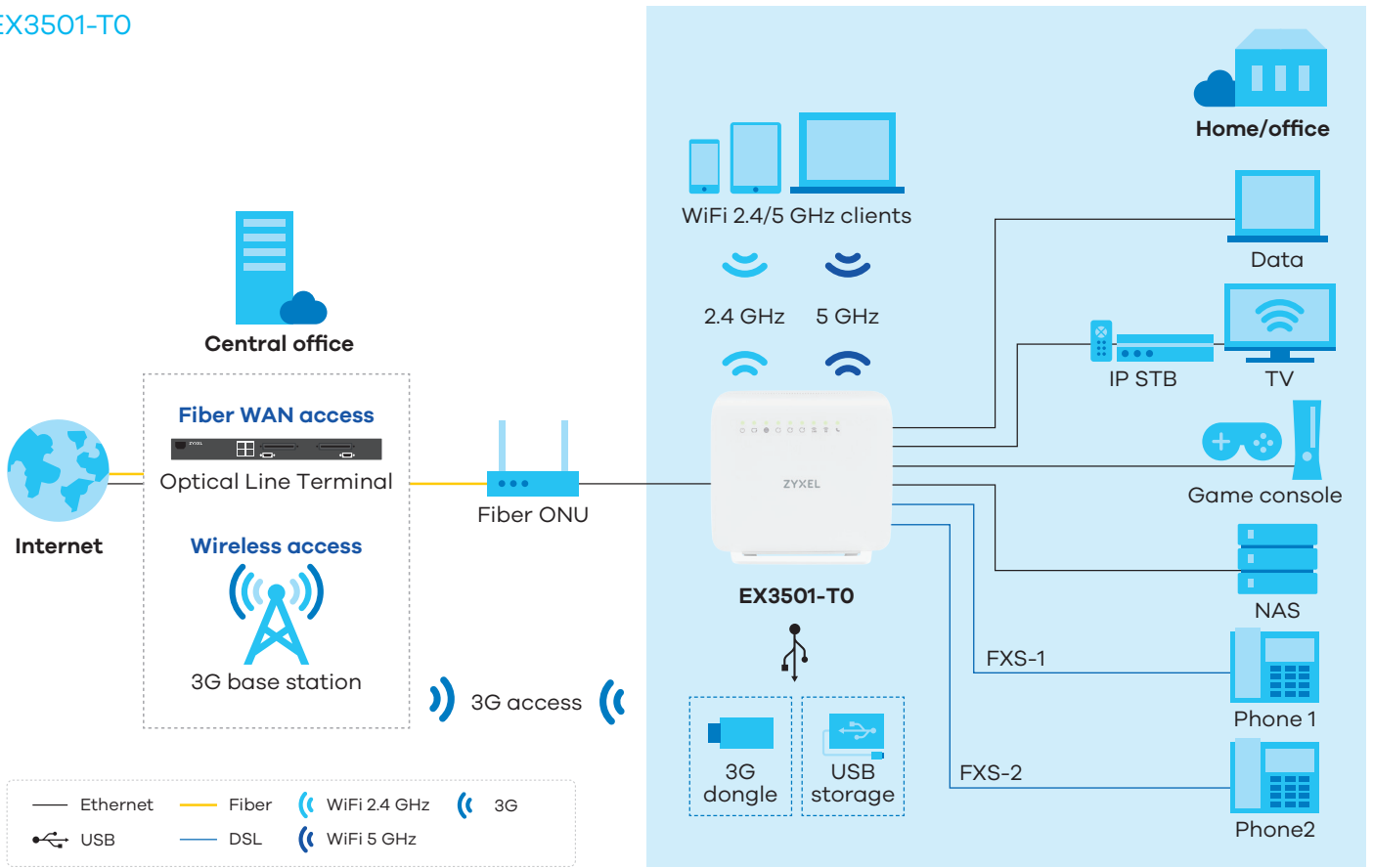
Model	EX3501-T0	EX3500-T0
System Specifications		
USB	<ul style="list-style-type: none"> • File sharing • Cellular backup with external 3G/4G USB dongle** 	
Management	<ul style="list-style-type: none"> • Web GUI (HTTP/HTTPS) • TR-369/TR-069/TR-098/TR-181 • SNMP v1/v2c & MIB II • Firmware upgrade through GUI/TR-069 • 2-tier level access and administration 	
Voice		
Codec	G.711 a/u, G.722, G.726	-
DTMF detection	Yes	-
Internal call	Yes	-
T.30/T.38/G.711 fax mode	Yes	-
Call waiting	Yes	-
Call hold/call retrieve	Yes	-
Call forwarding	Yes	-
Caller ID	Yes	-
Call transferring	Yes	-
Three way conference	Yes	-
Second call/adding an outgoing call	Yes	-
Switch between 2 active calls		-
Wireless		
Standard	<ul style="list-style-type: none"> • IEEE 802.11 b/g/n/ax 2.4 GHz • IEEE 802.11 a/n/ac/ax 5 GHz 	
Transfer rate	<ul style="list-style-type: none"> • 802.11ax (2.4 GHz): up to 600 Mbps • 802.11ax (5 GHz): up to 2400 Mbps 	
Security	WPA2-PSK, WPA3-SAE	
Power consumption	<ul style="list-style-type: none"> • Power supply: DC 12V/1.5A • Power consumption: 18 Watt max 	
Physical specifications		
Item	<ul style="list-style-type: none"> • Dimensions (WxDxH): 170 x 165 x 30 mm (6.69" x 5.0" x 1.18") • Weight: 288 g (0.635 lb.) 	
Packing	<ul style="list-style-type: none"> • Dimensions (WxDxH): 186 x 171.5 x 82.5 mm (7.32" x 6.75" x 3.25") • Weight: 557 g (1.23 lb.) 	
Environmental specifications		
Operating environment	<ul style="list-style-type: none"> • Temperature: 0°C to 40°C (32°F to 104°F) • Humidity: 10% to 90% (Non-condensing) 	
Storage environment	<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 • RoHS (Restriction of Hazardous Substances) Directive certification 	
Package contents	<ul style="list-style-type: none"> • Device • Power adapter • Ethernet cable • Phone cable (EX3501-T0) • Quick Start Guide 	

* 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.

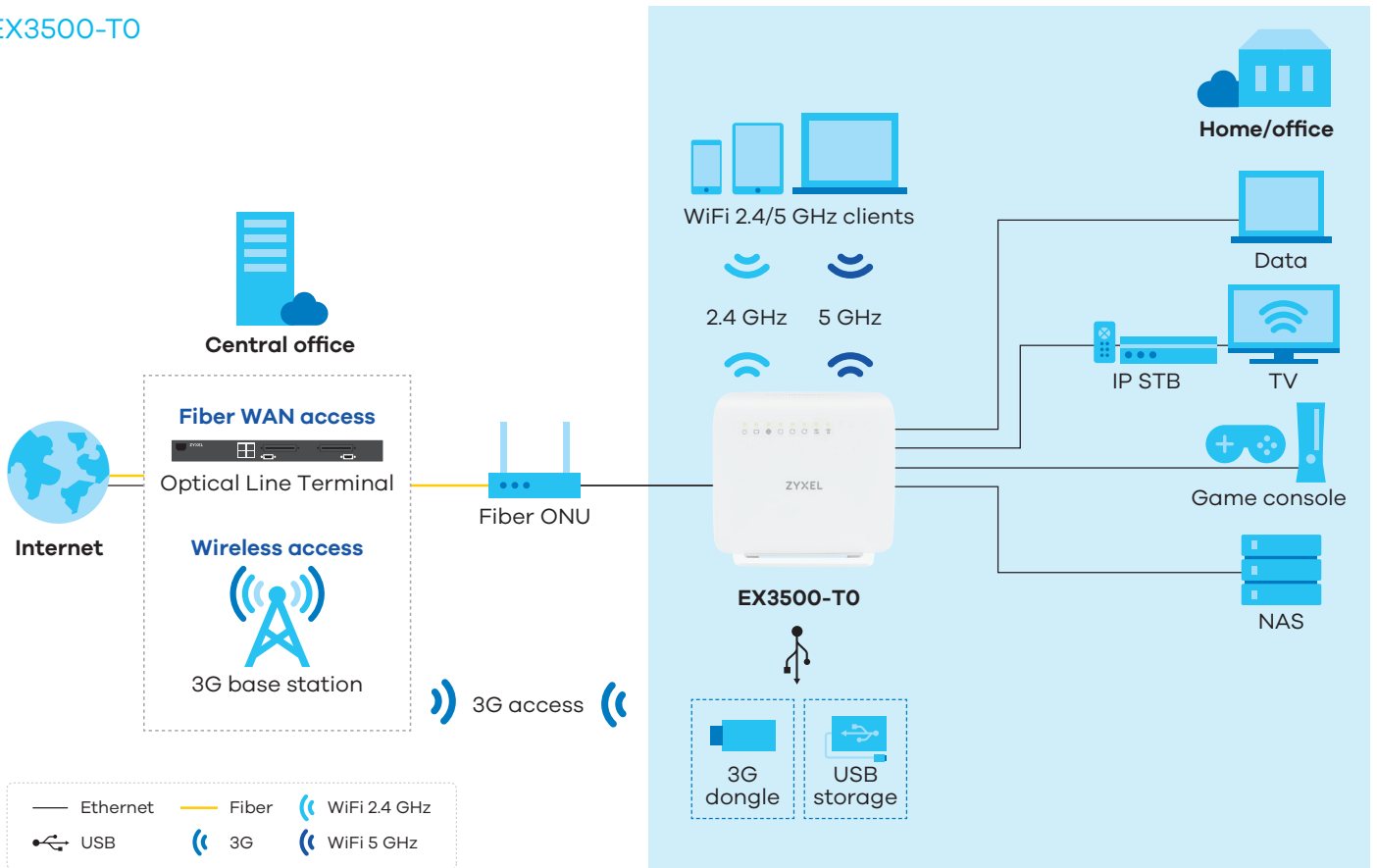
** 4G dongle support is limited to certain brand models and can be expanded per request.

Application diagram

EX3501-T0



EX3500-T0



Hardware interface

Front panels

EX3501-T0

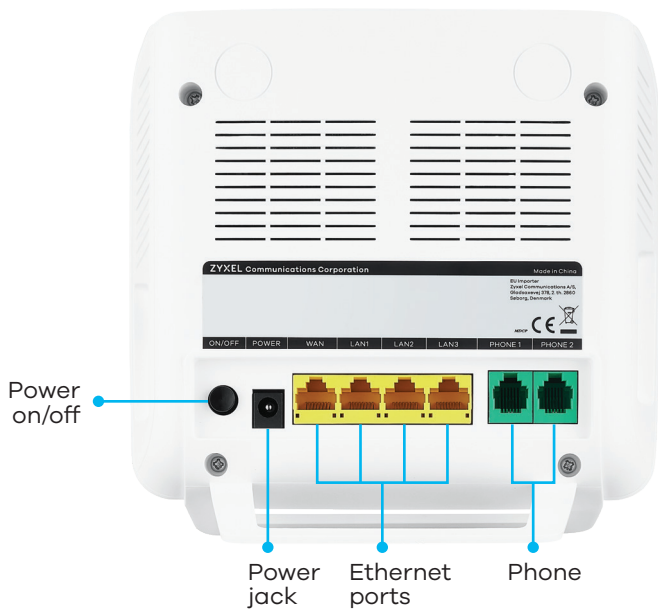


EX3500-T0

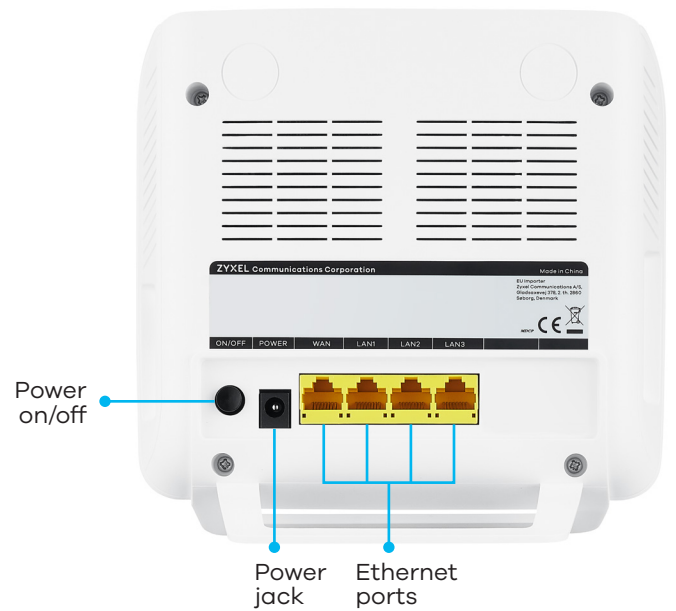


Rear panels

EX3501-T0

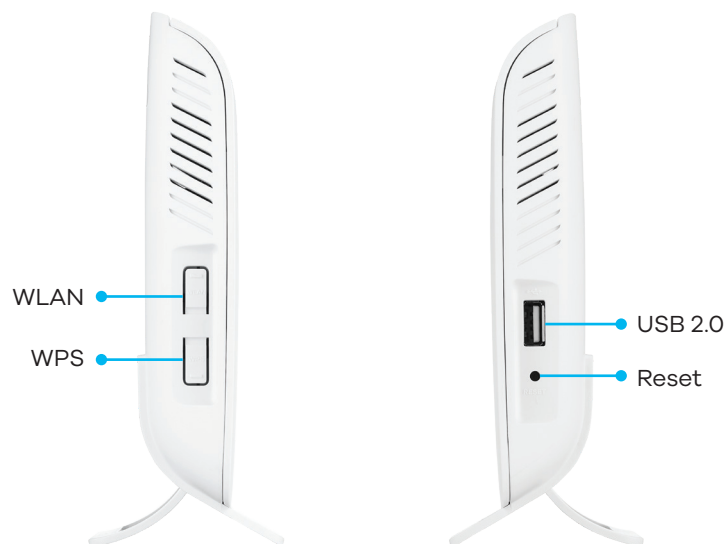


EX3500-T0



Side panels

EX3501-T0/EX3500-T0



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Datasheet [EX3501/EX3500-T0 Series](#)



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