


















Fiber Access ONT



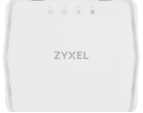

Fiber ONT product portfolio

	10G fiber	Gigabit fiber			
VoIP Gateway	 <p>PE6601-00 Tri-Band Wireless BE19000</p>	 <p>AX7501-B Series Dual-Band Wireless AX6000</p>	 <p>PX5301-T0 Dual-Band Wireless AX3000 2.5G PON</p>		
	Managed bridge	 <p>PM7500-00 XGS-PON SFU with 10GbE LAN</p>	 <p>PM7500-01 XGS-PON SFU with 2.5/1GbE LAN</p>	 <p>PM5100-T0 GPON SFU with 2.5GbE LAN</p>	 <p>PM3100-T0 GPON SFU with 1-port GbE LAN</p>
		 <p>PM7500-02 XGS-PON SFU with 2.5/1GbE LAN & 10GbE LAN</p>	 <p>PM7300-T0 XGS-PON SFU with 10GbE LAN</p>		

Fiber access ONT key features

Category	Model	Key features
10G fiber ONT	 <p>PE6601-00 10G MPro MESH</p>	<ul style="list-style-type: none"> • WiFi 7 (11be) 4x4+4x4+4x4 for superior performance and coverage • ZyXel MPro Mesh® Solutions (compliant with EasyMesh standards) • Remote management via TR-069, TR-181 i2 and TR-369 • ZyXel OPAL for superior flexibility and faster time to market • 100% recycled plastics* for CO2 emission reduction
	 <p>AX7501-B Series 10G MPro MESH</p>	<ul style="list-style-type: none"> • Integrated internet services via symmetric 10G fiber • WiFi 6 (11ax) 4x4+4x4 for superior performance and coverage • SFP+ supports passive and active fiber • ZyXel MPro Mesh® Solutions (compliant with EasyMesh standards) • ZyXel Execution Environment (ZyEE) for Linux Containers • Remote management via TR-069, TR-369 and OMCI • ZyXel-developed OPAL for superior flexibility and faster time-to-market
	 <p>PM7500-00 10G</p>	<ul style="list-style-type: none"> • Premium internet services via symmetric XGS-PON • 10GbE LAN port for premium service • Compact design for flexible deployment • Remote management via TR-069 and OMCI • ZyXel-developed OPAL for superior flexibility and faster time to market • Comprehensive QoS for network efficiency
	 <p>PM7500-01 10G</p>	<ul style="list-style-type: none"> • Premium internet services via symmetric XGS-PON • 2.5GbE LAN port for optimized bandwidth utilization • Compact design for flexible deployment • Remote management via TR-069 and OMCI • ZyXel-developed OPAL for superior flexibility and faster time to market • Comprehensive QoS for network efficiency
	 <p>PM7500-02 10G</p>	<ul style="list-style-type: none"> • Premium internet services via symmetric XGS-PON • 10/2.5GbE LAN port for flexible deployment • Compact design for flexible deployment • Remote management via TR-069 and OMCI • ZyXel-developed OPAL for superior flexibility and faster time to market • Comprehensive QoS for network efficiency
	 <p>PM7300-T0 10G</p>	<ul style="list-style-type: none"> • Premium internet services via symmetric XGS-PON • Compact design for flexible deployment • Remote management via TR-069 and OMCI • ZyXel-developed OPAL for superior flexibility and faster time to market • Comprehensive QoS for network efficiency

Fiber access ONT key features

Category	Model	Key features
GPON ONT		PX5301-T0  <ul style="list-style-type: none"> • Gigabit data access via passive fiber • WiFi 6 (11ax) 2x2+2x2 for superior performance and coverage • 2.5G LAN port for optimized bandwidth utilization • Compact design for flexible deployment • Remote management via TR-069 and OMCI • Zyxel-developed OPAL for superior flexibility and faster time-to-market • Comprehensive QoS for network efficiency
		PM5100-T0 <ul style="list-style-type: none"> • Gigabit data access via passive fiber • 2.5G LAN port for optimized bandwidth utilization • Compact design for flexible deployment • Remote management via TR-069 and OMCI • Zyxel-developed OPAL for superior flexibility and faster time-to-market • Comprehensive QoS for network efficiency
		PM3100-T0 <ul style="list-style-type: none"> • Gigabit data access via passive fiber • Compact design for flexible deployment • Remote management via TR-069 and OMCI • Zyxel-developed OPAL for superior flexibility and faster time-to-market • Comprehensive QoS for network efficiency

Fiber access ONT feature matrix

Model	10G fiber	
	PE6601-00	AX7501-B Series
Product name	Tri-Band Wireless BE19000 XGS-PON VOIP Gateway	Dual-Band Wireless AX6000 10G Fiber IAD with SFP+
WAN interface	10G (SC/APC)	SFP+ for fiber and Ethernet
Ethernet port (10/100/1000)	4 (1 for 10G LAN; 3 for GbE LAN)	5 (1 for 10G LAN)
POTS FXS port	2	2
USB port	1 (USB3.0)	1 (USB3.0)
PON		
Standard compliance	ITU-T G.9807.1/G.987.x/G.988	ITU-T G.9807.1/G.987.x/G.988
PMD class (ITU G.984.2)	B+	Supported by using an SFP+ for fiber
Speed (Gbps) (DS/US)	9.95328/9.95328	9.95328/9.95328
T-CONTs/GEM ports	40/256	40/256
Priority queue per T-CONT	8	8
Dynamic Bandwidth Allocation (DBA)	Yes	Yes
Forward Error Correction (FEC) DS/US	Yes	Yes
Advanced Encryption Standard (AES) DS	Yes	Yes
Voice		
SIP v2 (RFC 3261)	Yes	Yes
SDP (RFC 2327)	Yes	Yes
RTP (RFC 1889)	Yes	Yes
RTCP (RFC 1890)	Yes	Yes
CODEC: G.711a/u, G.726-32, G.729	Yes	Yes
Wireless		
WLAN	2.4 GHz 4x4 be + 5 GHz 4x4 be + 6 GHz 4x4 be	2.4 GHz 4x4 ax + 5 GHz 4x4 ax
Firewall		
Stateful packet inspection	Yes	Yes
Denial of service	Yes	Yes
VPN		
IPSec (pass-thru)	Yes	Yes
Network		
IEEE 802.1D transparent bridge	Yes	Yes
IGMP v1/v2/v3, fast leave/snooping	Yes	Yes
IGMP proxy	Yes	Yes
MLD v1/v2, fast leave/snooping	Yes	Yes
MLD proxy	Yes	Yes
MAC filtering	Yes	Yes
PPPoE	Yes	Yes
DHCP client/server/relay	Yes	Yes
DHCP server	Yes	Yes
Multi-to-multi NAT	Yes	Yes
Dynamic DNS (DDNS)	Yes	Yes
Management		
Web configurator	Yes	Yes
TR-369	Yes	Yes
TR-069/TR-181 i2	Yes	Yes
Remote firmware upgrade	Yes	Yes
SNMP	Yes	Yes
Physical specifications		
Dimensions (WxDxH)(mm/in.)	233.5 x 80 x 190/9.19 x 3.15 x 7.48	250 x 187 x 32/9.84 x 7.36 x 1.26
Weight (g/lb.)	1,215/2.68	473/1.04

Fiber access ONT feature matrix

Model	10G fiber		
	PM7500-00	PM7500-01	PM7500-02
Product name	XGS-PON SFU with 10GbE LAN	XGS-PON SFU with 2.5/1GbE LAN	XGS-PON SFU with 2.5/1GbE LAN & 10GbE LAN
WAN interface	10G (SC/APC)	10G (SC/APC)	10G (SC/APC)
Ethernet port (10/100/1000)	1 (10G LAN)	1 (2.5GbE LAN)	2 (1 for 10G LAN; 1 for 2.5GbE LAN)
POTS FXS port	-	-	-
USB port	-	-	-
PON			
Standard compliance	ITU-T G.98071/G.987.x/G.988	ITU-T G.98071/G.987.x/G.988	ITU-T G.98071/G.987.x/G.988
PMD class (ITU G.984.2)	B+	B+	B+
Speed (Gbps) (DS/US)	9.95328/9.95328	9.95328/9.95328	9.95328/9.95328
T-CONTs/GEM ports	32/256	32/256	32/256
Priority queue per T-CONT	8	8	8
Dynamic Bandwidth Allocation (DBA)	Yes	Yes	Yes
Forward Error Correction (FEC) DS/US	Yes	Yes	Yes
Advanced Encryption Standard (AES) DS	Yes	Yes	Yes
Voice			
SIP v2 (RFC 3261)	-	-	-
SDP (RFC 2327)	-	-	-
RTP (RFC 1889)	-	-	-
RTCP (RFC 1890)	-	-	-
CODEC: G.711a/u, G.726-32, G.729	-	-	-
Wireless			
WLAN	-	-	-
Firewall			
Stateful packet inspection	Yes	Yes	Yes
Denial of service	Yes	Yes	Yes
VPN			
IPSec (pass-thru)	Yes	Yes	Yes
Network			
IEEE 802.1D transparent bridge	Yes	Yes	Yes
IGMP v1/v2/v3, fast leave/snooping	Yes	Yes	Yes
IGMP proxy	Yes	Yes	Yes
MLD v1/v2, fast leave/snooping	Yes	Yes	Yes
MLD proxy	Yes	Yes	Yes
MAC filtering	Yes	Yes	Yes
PPPoE	Yes	Yes	Yes
DHCP client/server/relay	Yes	Yes	Yes
DHCP server	Yes	Yes	Yes
Multi-to-multi NAT	Yes	Yes	Yes
Dynamic DNS (DDNS)	Yes	Yes	Yes
Management			
Web configurator	Yes	Yes	Yes
TR-369	-	-	-
TR-069/TR-181 i2	Yes	Yes	Yes
Remote firmware upgrade	Yes	Yes	Yes
SNMP	Yes	Yes	Yes
Physical specifications			
Dimensions (WxDxH)(mm/in.)	130 x 120 x 32/5.11 x 4.72 x 1.25	130 x 120 x 32/5.11 x 4.72 x 1.25	130 x 120 x 32/5.11 x 4.72 x 1.25
Weight (g/lb.)	380/0.84	380/0.84	380/0.84

	GPON ONT		
PM7300-T0	PX5301-T0	PM5100-T0	PM3100-T0
XGS-PON SFU with 10GbE LAN	Dual-Band Wireless AX3000 2.5G PON VoIP IAD	2.5G PON SFU with 2.5GbE LAN	GPON SFU with 1-port GbE LAN
10G (SC/APC)	GPON SC/APC	GPON SC/APC	GPON SC/APC
1 (10G LAN)	4 (1 x 2.5GbE + 3 x 1GbE LAN)	1 (2.5GbE LAN)	1 (GbE LAN)
-	1	-	-
-	1	-	-
ITU-T G.9807.1/G.987.x/G.988	ITU-T G.984.x/G.988	ITU-T G.984.x/G.988	ITU-T G.984.x/G.988
N1, N2, E1, E2	B+	B+	B+
9.95328/9.95328	2.488/1.244	2.488/1.244	2.488/1.244
32/256	32/256	32/256	32/256
8	8	8	8
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
-	2.4 GHz 2x2 ax + 5 GHz 2x2 ax	-	-
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
-	Yes	-	-
Yes	Yes	Yes	Yes
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
-	Yes	-	-
Yes	Yes	Yes	Yes
-	-	-	-
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
-	Yes	-	-
130 x 120 x 32/5.11 x 4.72 x 1.25	170 x 121x 42/6.7 x 4.76 x 1.65	130 x 120 x 32/5.11 x 4.72 x 1.25	130 x 120 x 32/5.11 x 4.72 x 1.25
380/0.84	292/0.64	380/0.84	380/0.84

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