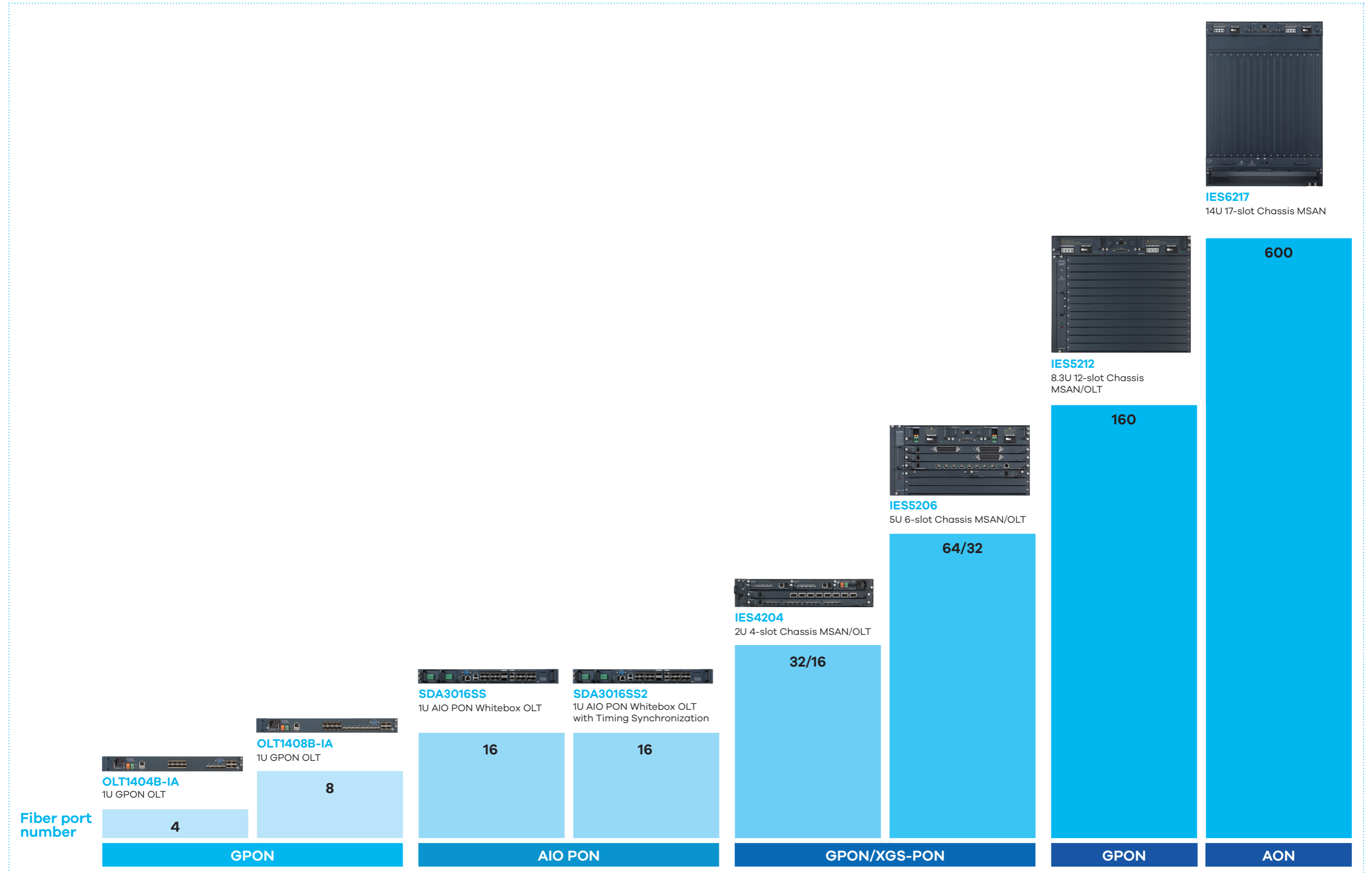


Fiber Access E2E

Fiber COE product portfolio



Fiber COE key features

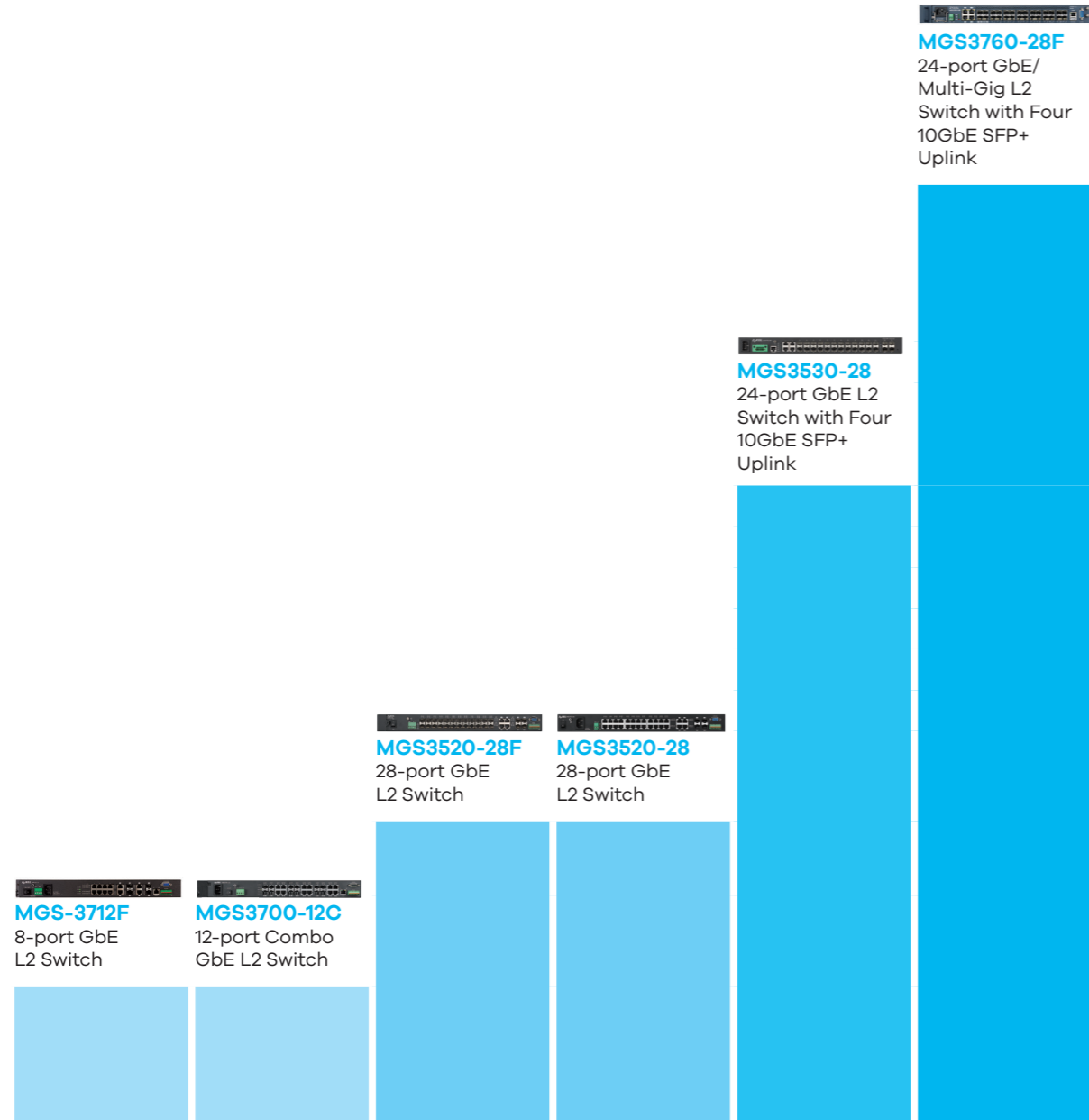
Category	Model	Key features
Chassis MSAN/OLT	IES6217	<ul style="list-style-type: none"> • Maximum 192x3-port vectoring VDSL density, 600-port Gigabit Ethernet density • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • Board-Level Vectoring (BLV) and System-Level Vectoring (SLV) • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
	IES5212	<ul style="list-style-type: none"> • Maximum 192x2-port vectoring VDSL density, 400-port Gigabit Ethernet density, or 160-port GPON density • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Board-Level Vectoring (BLV) and System-Level Vectoring (SLV) • Full redundancy of Management card and power module • Comprehensive QoS for network efficiency • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation • Zero-Touch Provisioning for fast xPON ONT commissioning
	IES5206	<ul style="list-style-type: none"> • Maximum 192-port vectoring VDSL density, 200-port Gigabit Ethernet density, 64-port GPON density, or 32-port XGS-PON density • Supports symmetric XGS-PON for residential, cloud, and enterprise services • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Board-Level Vectoring (BLV) and System-Level Vectoring (SLV) • Full redundancy of management card and power module • Comprehensive QoS for network efficiency • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation • Zero-Touch Provisioning for fast xPON ONT commissioning
	IES4204	<ul style="list-style-type: none"> • Maximum 96-port vectoring VDSL density, 80-port Gigabit Ethernet density, 32-port GPON density, or 16-port XGS-PON density • Supports symmetric XGS-PON for residential, cloud, and enterprise services • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Full redundancy of management cards and power module • Comprehensive QoS for network efficiency • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation
	IES4204	<ul style="list-style-type: none"> • Maximum 96-port vectoring VDSL density, 80-port Gigabit Ethernet density, 32-port GPON density, or 16-port XGS-PON density • Supports symmetric XGS-PON for residential, cloud, and enterprise services • Flexible ACL, VLAN-aware DHCP, and anti-IP/MAC address spoofing to prevent malicious attacks • DHCP option 82 and PPPoE IA features support versatile IP address assignment • Full redundancy of management cards and power module • Comprehensive QoS for network efficiency • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation

Category	Model	Key features
Whitebox OLTs	SDA3016SS2	<ul style="list-style-type: none"> • Disaggregated open whitebox OLT with 16 SFP+ ports with All-in-One (AIO) PON technology • ITU-T mode GPON, XGS-PON, C-PON (GPON+XGSPON) and 10G Active Ethernet • IEEE mode EPON, 10G-EPON, C-PON (EPON+10G-EPON) and 10G Active Ethernet • Time synchronization compliant with IEEE 1588v2 PTP • ETSI-Rack compliant, 260 mm depth, 1U height, temperature-hardened
	SDA3016SS	<ul style="list-style-type: none"> • Disaggregated open whitebox OLT with 16 SFP+ ports with All-in-One (AIO) PON technology • Each AIO PON port supports GPON, XGS-PON or C-PON (GPON+XGS-PON) • ETSI-Rack compliant, 260 mm depth, 1U height, temperature-hardened
PON OLT	OLT1408B-IA	<ul style="list-style-type: none"> • Eight ITU-T G.984-compliant GPON ports; each port supports up to 128 ONTs • Four 10G and eight 1G/2.5G uplink ports • Comprehensive QoS for network efficiency • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation • Compact size and front access design for easy installation and deployment
	OLT1404B-IA	<ul style="list-style-type: none"> • Four ITU-T G.984-compliant GPON ports; each port supports up to 128 ONTs • Four 10G and eight 1G/2.5G uplink ports • Comprehensive QoS for network efficiency • Field-proven IGMP snooping and proxy for IPTV deployments • Sophisticated OAM&P features • Temperature-hardened for flexible installation • Compact size and front access design for easy installation and deployment
	NetAtlas EMS	<ul style="list-style-type: none"> • Intuitive Graphical User Interface (GUI) • Fast system recovering • Up to 300 concurrent remote login clients • Periodical configuration file backup • Batch firmware upgrade and service provisioning • XML/SOAP northbound interface supported

Fiber COE feature matrix







Model	IES6217	IES5212	IES5206	IES4204	SDA3016SS	SDA3016SS2	OLT1408B-IA	OLT1404B-IA
Product name	14U 17-slot Temperature-Hardened Chassis MSAN	8.3U 12-slot Temperature-Hardened Chassis MSAN/OLT	5U 6-slot Temperature-Hardened Chassis MSAN/OLT	2U 4-slot Temperature-Hardened Chassis MSAN/OLT	1U Pizza Box 16-port Combo PON Whitebox OLT	1U Pizza Box 16-port All-In-One PON Whitebox OLT with Timing Synchronization	1U Pizza Box 8-port GPON OLT	1U Pizza Box 4-port GPON OLT
Power	-36 to -72 V DC	-36 to -72 V DC	-36 to -72 V DC 100 to 240 V AC	-36 to -72 V DC 100 to 240 V AC Battery charger	-38.4 to -72 V DC 100 to 240 V AC	-38.4 to -72 V DC 100 to 240 V AC	-36 to -72 V DC 100 to 240 V AC Battery charger	-36 to -72 V DC 100 to 240 V AC Battery charger
Operating temperature	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C	-40°C to 65°C
Operating humidity	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH	10% to 95% RH
Interface								
Uplink	1000BASE-T	-	-	-	-	-	-	-
	SFP slot (2.5G/1G)	-	-	-	-	-	8	8
	SFP+ slot (10G/2.5G/1G)	8	4/8	4/8	4+4	-	4	4
	SFP28 slot (25G/10G/1G)	-	-	-	-	2	-	-
	QSFP28 slot (100G/40G)	-	-	-	-	2	-	-
Downlink	AIO PON interface	-	-	-	16	16	-	-
	Combo PON interface (G/XGS-PON)	-	-	-	16	16	-	-
	XGS-PON interface	-	-	32 XGS-PON	16 XGS-PON	16	-	-
	GPON interface	-	160	64	32	16	8	4
	Combo PON interface (1GE/10GE PON)	-	-	-	-	16	-	-
	EPON interface	-	-	-	-	16	-	-
	10G-EPON interface	-	-	-	-	16	-	-
	VDSL2 interface	192 x 3 (Vectoring)	192 x 2 (Vectoring)	192 (Vectoring)	96 (Vectoring)	-	-	-
	GbE interface	600	400	200	80	-	-	-
	10GbE interface	-	-	-	-	8	-	-
PON								
Maximum splitter ratio	-	1:128	10G PON: 1:256 GPON: 1:128	10G PON: 1:256 GPON: 1:128	Combo (G/XGS-PON): 1:256 + 1:128 10G PON: 1:256 GPON: 1:128	Combo (G/XGS-PON): 1:256 + 1:128 10G PON: 1:256 GPON: 1:128	1:128	1:128
Type B protection	-	Yes	Yes	Yes	Yes, HW ready	Yes, HW ready	Yes	Yes
AES	-	Yes	Yes	Yes	Yes, HW ready	Yes, HW ready	Yes	Yes
SFP digital diagnostic management	-	Yes	Yes	Yes	Yes, HW ready	Yes, HW ready	Yes	Yes
QoS								
802.1p priority queue	8	8	8	8	8	8	8	8
802.1q tag-based VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SPQ/WFQ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DBA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
IGMP v2, v3	Yes	Yes	Yes	Yes	Yes, HW ready	Yes, HW ready	Yes	Yes
IGMP fast leave	Yes	Yes	Yes	Yes	Yes, HW ready	Yes, HW ready	Yes	Yes
Multicast VLAN	Yes	Yes	Yes	Yes	Yes, HW ready	Yes, HW ready	Yes	Yes
MLDv1 & MLDv2 snooping and proxy	Yes	Yes	Yes	Yes	Yes, HW ready	Yes, HW ready	Yes	Yes
Management								
SNMP v2c, v3	Yes	Yes	Yes	Yes	-	-	Yes	Yes
Web management	Yes	Yes	Yes	Yes	-	-	Yes	Yes
CLI management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMS management	NetAtlas EMS	NetAtlas EMS	NetAtlas EMS	NetAtlas EMS	-	-	NetAtlas EMS	NetAtlas EMS
Timing								
IEEE1588v2	-	-	-	-	-	Yes	-	-
Sync-E	-	-	-	-	-	Yes	-	-
1PPS	-	-	-	-	-	Yes	-	-
Physical specifications								
Dimensions (WxDxH)(mm/in.)	440 x 275 x 622/ 17.32 x 10.83 x 24.49	440 x 275 x 370/ 17.32 x 10.83 x 14.57	440 x 275 x 222/ 17.32 x 10.83 x 8.74	440 x 285 x 89/ 17.32 x 11.22 x 3.5	440 x 260 x 44.5/ 17.32 x 10.23 x 1.75	440 x 260 x 44.5/ 17.32 x 10.23 x 1.75	440 x 250 x 44/ 17.32 x 9.84 x 1.73	440 x 250 x 44/ 17.32 x 9.84 x 1.73
Weight (kg/lb.)	25.5/56.22	15.5/34.17	13/28.66	10.6/23.37	5.1/11.24	5.1/11.24	4/8.8	4/8.8

Carrier and access switch product portfolio



Port density	MGS-3712F	MGS3700-12C	MGS3520-28F	MGS3520-28	MGS3530-28	MGS3760-28F
Backplane bandwidth (Gbps)	24	24	56	56	128	176
1 Gigabit RJ-45 ports	-	-	-	24	24	-
1 Gigabit SFP slots	8	-	24	-	-	4
Combo Gigabit ports (RJ-45/SFP)	4	12	4	4	-	4
2.5 Gigabit SFP slots	-	-	-	-	-	16
10 Gigabit SFP+ slots	-	-	-	-	4	4









Carrier and access switch key features

Category	Model	Key features
Layer 2	 MGS3760-28F	<ul style="list-style-type: none"> Four combo ports (Fixed RJ-45 1G BASE-T or SFP open slot), four SFP 1GbE fiber ports, and 16 SFP ports (up to 1GbE/2.5GbE) Four 10GbE/2.5GbE/1GbE SFP+ uplinks flexibility Fully managed Layer-2 switching ITU-T G.8032 Ethernet ring protection switching Future-proof with IPv6 support Policy-based QoS optimizes multi-service quality Temperature-hardened for flexible installation Operating temperature: -40°C to 60°C
	 MGS3530-28	<ul style="list-style-type: none"> Four 10GbE SFP+ uplink flexibility 24 100/1000BASE-TX ports 128 Gbps non-blocking switching fabric; 95.2 Mpps forwarding rate 16K MAC address table; 12 KB jumbo frame; 4K multicast forwarding table Front access design; external alarm block Operating temperature: 0°C to 50°C
	 MGS3520-28	<ul style="list-style-type: none"> 24 100/1000BASE-TX ports and four combo Gigabit ports (RJ-45/SFP open slots) 56 Gbps non-blocking switching fabric; 41.67 MPPs forwarding rate 16K MAC address table; 12 KB jumbo frame; 4K multicast forwarding table Front access design; external alarm block Operating temperature: 0°C to 50°C
	 MGS3520-28F	<ul style="list-style-type: none"> 24 GbE SFP open slots and four combo Gigabit ports (RJ-45/SFP open slots) 56 Gbps non-blocking switching fabric; 41.67 MPPs forwarding rate 16K MAC address table; 12 KB jumbo frame; 4K multicast forwarding table Front access design; external alarm block Operating temperature: 0°C to 50°C
	 MGS3700-12C	<ul style="list-style-type: none"> 12 combo Gigabit ports (RJ-45/SFP open slots) 24 Gbps non-blocking switching fabric; 17.8 MPPs forwarding rate Multilayer-aware (L2/L3/L4) ACL for security protection Front access design; external alarm block Supports CO-LPR (Dying Gasp); errdisable recovery trap; CPU protection Operating temperature: 0°C to 65°C
	 MGS-3712F	<ul style="list-style-type: none"> Eight SFP ports and four combo Gigabit ports (RJ-45/SFP open slots) 24 Gbps non-blocking switching fabric; 17.8 MPPs forwarding rate Multilayer-aware (L2/L3/L4) ACL for security protection Front access design; external alarm block Supports CO-LPR (Dying Gasp); errdisable recovery trap; CPU protection Operating temperature: 0°C to 65°C






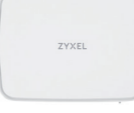


Carrier and access switch feature matrix

Model	MGS3760-28F	MGS3530-28	MGS3520-28	MGS3520-28F	MGS3700-12C	MGS-3712F
Product name	24-port GbE/Multi-GbE L2 Switch with Four 10GbE SFP+ Uplink	24-port GbE L2 Switch with Four 10GbE SFP+ Uplink	28-port GbE L2 Switch with GbE Uplink	28-port GbE L2 Switch with GbE Uplink	12-port Combo GbE L2 Managed Switch	12-port GbE L2 Switch with Four GbE Uplink
Switch class	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Hardware						
1 Gigabit RJ-45 ports	-	24	24	-	-	-
1 Gigabit SFP slots	4	-	-	24	-	8
Combo Gigabit ports (RJ-45/SFP)	4	-	4	4	12	4
SFP with up to 1GbE/2.5GbE	16	-	-	-	-	-
1GbE/2.5GbE/10GbE SFP+ ports	4	-	-	-	-	-
USB type console port	1	-	-	-	-	-
DB9 alarm port	1	-	-	-	-	-
10 Gigabit XFP/SFP+ slots	-	4	-	-	-	-
Wire-speed	Yes	Yes	Yes	Yes	Yes	Yes
Backplane bandwidth (Gbps)	176	128	56	56	24	24
Forwarding rate (Mbps)	131.1	95.32	41.67	41.67	17.8	17.8
MAC addresses	16000	16000	16000	16000	16000	16000
Management						
CLI, web, GUI	Yes	Yes	Yes	Yes	Yes	Yes
Alarm block	Yes	Yes	Yes	Yes	Yes	Yes
Out-of-band management port	Yes	-	-	-	Yes	Yes
Routing/redundancy						
Spanning tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Backup power support (DC 12V)	Dual-power AC & -72V DC	Yes	Yes	Yes	Dual-power AC & 48V DC	Dual-power AC & 48V DC
Quality of Service (QoS)						
Priority queues	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
ACL data prioritization (L2/L3/L4)	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes
Security						
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes
RADIUS MAC login	Yes	Yes	Yes	Yes	Yes	Yes
VLAN stacking (Q-in-Q)	Yes	Yes	Yes	Yes	Yes	Yes
Selective Q-in-Q	Yes	Yes	Yes	Yes	Yes	Yes
Green features						
Fan type	Swappable fan	Fanless	Fanless	Fan-tray	Fan-tray	Fan-tray
Others						
IPv6	Yes	Yes	Yes	Yes	Yes	Yes
Physical specifications						
Dimensions (WxDxH)(mm/in.)	440 x 250 x 44.35/ 17.32 x 9.84 x 1.74	441 x 269 x 45/ 17.36 x 10.59 x 1.77	440 x 270 x 44/ 17.32 x 10.63 x 1.73	440 x 270 x 44/ 17.32 x 10.63 x 1.73	440 x 225 x 44/ 17.32 x 8.86 x 1.73	440 x 225 x 44/ 17.32 x 8.86 x 1.73
Weight (kg/lb.)	5.6/12.345	3.6/7.9	3.1/6.8	3.7/8.2	3.5/7.7	3.5/7.7

Fiber ONT product portfolio

	XGS-PON	GPON
Wireless		 <p>PMG5622GA GPON HGU with 4-port GbE LAN, RF Overlay</p>
		 <p>PMG5617GA GPON HGU with 4-port GbE LAN</p>
		 <p>EP240P GPON PoE HGU with 4-port GbE LAN</p>
		 <p>PMG5617-T20B2 GPON AC1200 HGU with 4-port GbE LAN</p>
SFU	 <p>PM7300-T0 XGS-PON SFU with 10GbE LAN</p>	 <p>PMG1005-T20C GPON SFU with 1-port GbE LAN</p>
	 <p>PM7010-R0 XGS-PON SFP+ ONT</p>	 <p>PMG3000-D20B SFP-Type SFU</p>

Fiber ONT key features

Category	Model	Key features
XGS-PON ONT	PM7300-T0 	<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
	PM7010-R0 	<ul style="list-style-type: none"> ITU-T G.9807 compliant MSA SFP+ footprint Bi-directional function via single fiber Compact size and simple bridge design for easy installation and deployment Remote management via OMCI Built-in digital diagnostics function
GPON ONT	PMG5622GA 	<ul style="list-style-type: none"> Supports gigabit data access via passive fiber Concurrent dual-band wireless circuit design Remote management via OMCI and APS Zyxel-developed OPAL for superior flexibility and faster time-to-market RF overlay for traditional CATV video services through the GPON network
	PMG5617GA 	<ul style="list-style-type: none"> Supports gigabit data access via passive fiber Concurrent dual-band wireless circuit design Remote management via OMCI and APS Zyxel-developed OPAL for superior flexibility and faster time-to-market
	PMG5617-T20B2 	<ul style="list-style-type: none"> Supports gigabit data access via passive fiber Concurrent dual-band wireless circuit design Remote management via OMCI and TR-069 Zyxel-developed OPAL for superior flexibility and faster time-to-market
	EP240P 	<ul style="list-style-type: none"> Supports gigabit data access via passive fiber Compliant with IEEE 802.3at/af standard 30 watt output per LAN port/up to 70 watt per system Remote management via TR-069 and OMCI Simultaneous port-based bridge and router modes Temperature-hardened for flexible installation
	PMG1005-T20C 	<ul style="list-style-type: none"> Supports gigabit data access via passive fiber Compact size and simple bridge design for easy installation and deployment Remote management via OMCI
	PMG3000-D20B 	<ul style="list-style-type: none"> Supports gigabit data access via passive fiber Remote management via OMCI MSA-compliant SFP electrical footprint

Fiber ONT feature matrix

Model	XGS-PON		GPON					
	PM7300-T0	PM7010-R0	PMG5622GA	PMG5617GA	PMG5617-T20B2	EP240P	PMG1005-T20C	PMG3000-D20B
Product name	XGS-PON SFU with 10GbE LAN	XGS-PON SFP+ ONT	Dual-Band Wireless AC/N GPON HGU with 4-port GbE LAN and RF Overlay	Dual-Band Wireless AC/N GPON HGU with 4-port GbE LAN	AC1200 WiFi 5 GPON VoIP Gateway ONT	GPON HGU with 4-port GbE LAN	GPON SFU with 1-port GbE LAN	Gigabit GPON SFP-Type SFU
WAN interface	XGS-PON (SC/APC)	XGS-PON (SC/APC)	GPON (SC/APC)	GPON (SC/APC)	GPON (SC/APC)	GPON (SC/APC)	GPON (SC/APC)	GPON (SC/APC)
Ethernet port (10/100/1000)	1 (1 for 10G LAN)	1 (HSGMII)	4	4	4	4	1	1 (SGMII/SerDes)
POTS FXS port	-	-	2	2	1	2	-	-
USB port	-	-	1 (USB 2.0)	1 (USB 2.0)	1 (USB 2.0)	1 (USB 2.0)	-	-
UPS	-	-	Yes	Yes	-	Yes	-	-
CATV	-	-	Yes	-	-	-	-	-
PON								
Standard compliance	ITU-T G.9807.1/G.987.x/G.988	ITU-T G.9807.1/G.988	ITU-T G.984.x/G.988	ITU-T G.984.x/G.988	ITU-T G.984.x/G.988	ITU-T G.984.x/G.988	ITU-T G.984.x/G.988	ITU-T G.984.x/G.988
PMD class (ITU G.984.2)	N1, N2, E1, E2	N1, N2, E1	B+	B+	B+	B+	B+	B+
Physical distance support (km)	20	20	20	20	20	20	20	20
Wavelength support (nm)(DS/US)	1577/1270	1577/1270	1550 nm (CATV) 1490/1310	1490/1310	1490/1310	1490/1310	1490/1310	1490/1310
Speed (Gbps)(DS/US)	9.95328/9.95328	9.95328/9.95328	2.488/1.244	2.488/1.244	2.488/1.244	2.488/1.244	2.488/1.244	2.488/1.244
T-CONTs/GEM ports	32/256	32/128	8/32	8/32	8/32	8/32	8/32	8/32
Priority queue per T-CONT	8	8	8	8	8	8	8	8
Dynamic Bandwidth Allocation (DBA)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Forward Error Correction (FEC) DS/US	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advanced Encryption Standard (AES) DS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GEM header removal/insertion and data extraction/segmentation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voice								
SIP v2 (RFC 3261)	-	-	Yes	Yes	Yes	Yes	-	-
SDP (RFC 2327)	-	-	Yes	Yes	Yes	Yes	-	-
RTP (RFC 1889)	-	-	Yes	Yes	Yes	Yes	-	-
RTCP (RFC 1890)	-	-	Yes	Yes	Yes	Yes	-	-
CODEC: G.711a/u, G.726-32, G.729	-	-	Yes	Yes	Yes	Yes	-	-
Wireless								
WLAN	-	-	2.4 GHz 2x2 n + 5 GHz 2x2 ac	2.4 GHz 2x2 n + 5 GHz 2x2 ac	2.4 GHz 2x2 n + 5 GHz 2x2 ac	-	-	-
Firewall								
Stateful packet inspection	Yes	-	Yes	Yes	Yes	Yes	-	-
Denial of service	-	-	Yes	Yes	Yes	Yes	-	-
VPN								
IPSec (pass-thru)	-	-	Yes	Yes	Yes	Yes	-	-
Network								
IEEE 802.1D transparent bridge	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
IGMP v1/v2/v3, fast leave/snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP proxy	-	-	Yes	Yes	Yes	Yes	-	-
MLD v1/v2, fast leave/snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLD proxy	-	-	Yes	Yes	Yes	Yes	-	-
MAC filtering	-	-	Yes	Yes	Yes	Yes	Yes	Yes
PPPoE	-	-	Yes	Yes	Yes	Yes	-	-
DHCP client/server/relay	-	-	Yes	Yes	Yes	Yes	-	-
PPPoA	-	-	Yes	Yes	Yes	Yes	-	-
Multi-to-multi NAT	-	-	Yes	Yes	Yes	Yes	-	-
Dynamic DNS (DDNS)	-	-	Yes	Yes	Yes	Yes	-	-
Management								
Web configurator	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes
TR-069/TR-181 i2	Yes	-	Yes	Yes	Yes	Yes	-	-
Remote firmware upgrade	Yes	Yes (OMCI)	Yes	Yes	Yes	Yes	Yes (OMCI)	Yes (OMCI)
SNMP	-	-	Yes	Yes	Yes	Yes	-	-
Physical specifications								
Dimensions (WxDxH)(mm/in.)	130 x 120 x 32/ 5.11 x 4.72 x 1.25	85 x 14 x 12/ 3.34 x 0.55 x 0.47	252 x 162 x 32/ 9.92 x 6.38 x 1.26	252 x 162 x 32/ 9.92 x 6.38 x 1.26	171 x 128 x 42/ 6.73 x 5.04 x 1.65	196.9 x 143 x 43.5/ 7.8 x 5.6 x 1.7	109.4 x 83.6 x 36.5/ 4.3 x 3.29 x 1.43	74.7 x 14.06 x 12.4/ 2.94 x 0.55 x 0.48
Weight (g/lb.)	380/0.84	31/0.07	435/0.96	345/0.76	276/0.61	368/0.81	113/0.25	10/0.02

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