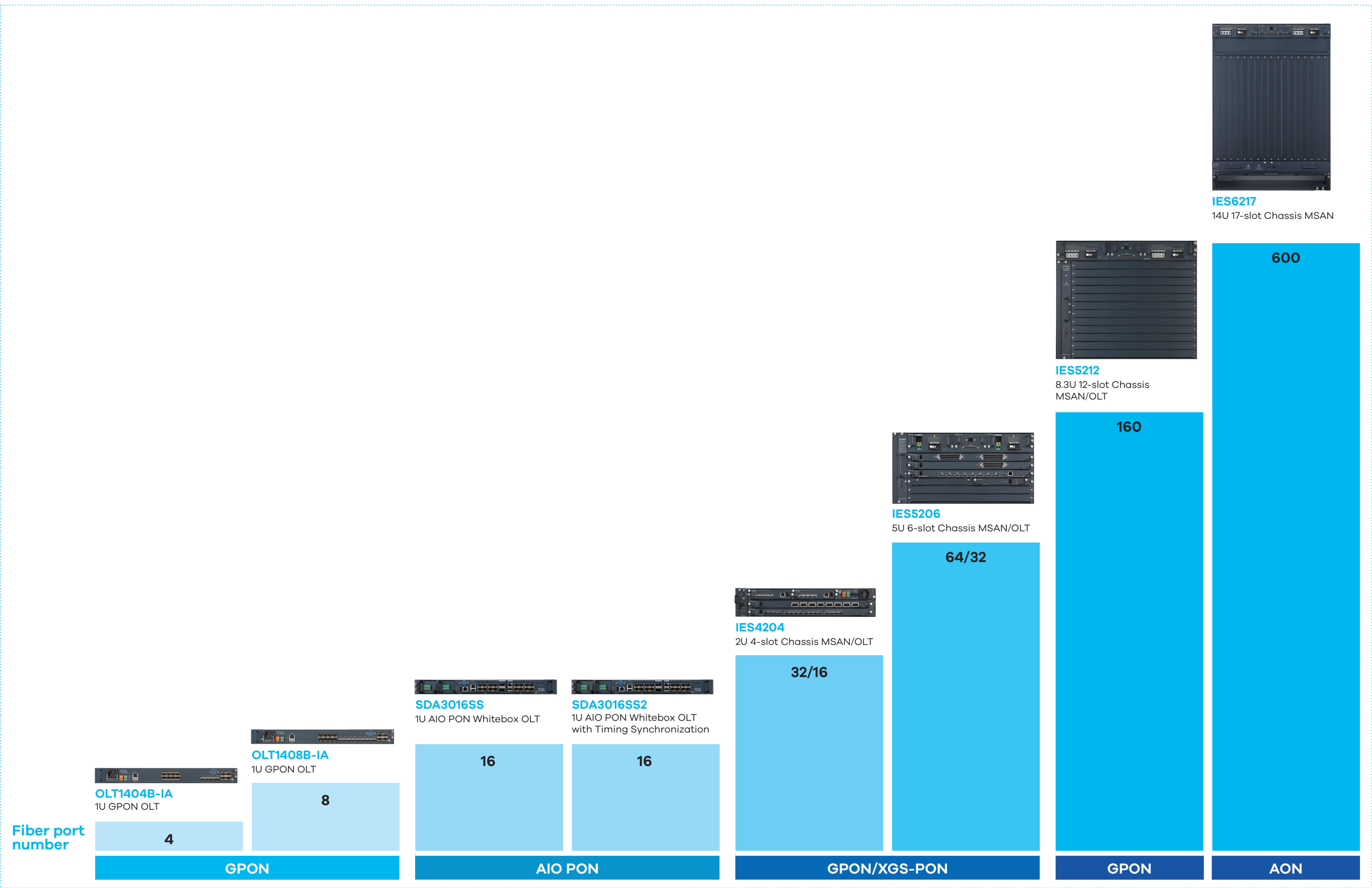
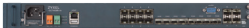
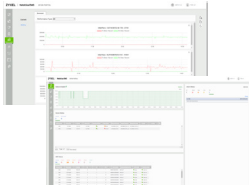


Fiber COE product portfolio



Fiber COE key features

Category	Model	Key features
Chassis MSAN/OLT		IES6217 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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
Network management		NetAtlas EMS - 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	2	-	-
	QSFP28 slot (100G/40G)	-	-	-	2	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