



### Highlights

- 10 Gigabit Connectivity

High bandwidth uplinks eliminate network bottleneck and provide low-latency connections for network servers and storage.

- Comprehensive Management

An intuitive web interface, SNMP support, and a powerful Command Line Interface provide a complete set of management features.

- Layer 3 Functions

Wire speed inter-VLAN routing helps reducing the load of routers and backbone networks, improving the overall network efficiency.

The XenOpt X1510 Series is the latest generation of Managed switches with 10G capability, available with 16, 24, or 48 10/100/1000 Mbps copper ports plus additional 10Gb optical ports for physical stacking and/or uplinks. The PoE-capable X1510-28P and X1510-28XMP switches are able to power IP phones, wireless access points, or IP cameras using existing network infrastructure. The combination of high bandwidth connections, stacking and PoE support make the X1510 Series ideal for Small-Medium Enterprise (SME) and Small-Medium Business (SMB) environments.

### 10G SFP+ Stacking/Uplink Ports

The last two SFP+ ports of the X1510 Series switches allow users to create a physical stack of up to 6 units in a fault-tolerant ring or linear topology using Direct Attach Cables (DACs) or any compatible SFP+ transceiver<sup>1</sup>. This creates a cost effective combined switch with total of 288 Gigabit ports, ensuring high bandwidth. The remaining optical uplink ports can be used for other functions, such as connecting to core network. Users can easily configure and manage all of the X1510 Series Smart Managed switches in a single stack with single configuration. With 20 Gbps full-duplex capabilities, the X1510-nnX switches offer additional two SFP+ 10Gb ports (4 total) for fast connectivity to core networks while primary 10Gb ports are being used for stacking.

### Features

#### Advanced Features

- Physical stacking of up to 6 devices via two 10G ports
- Ethernet Ring Protection Switching (ERPS)
- Static Routing
- Auto Surveillance VLAN
- Auto Voice VLAN
- Loopback Detection
- LLDP/LLDP-MED

#### Security Features

- Access Control List (ACL)
- Safeguard Engine
- BPDU Attack Protection
- ARP Spoofing Prevention
- IP-MAC-Port Binding
- DoS Attack Prevention
- Clientless MAC/Web Access Control

#### Intuitive Management

- Multi-language web-based user interface
- Built-in SNMP MIB for remote network management systems
- Comprehensive industry standard CLI support
- Manageability for both IPv4/IPv6 environment
- Dual image support
- Console interface for out-of-band management

#### Green Technology

- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Power-saving features

### Layer 3 Traffic Management

The X1510 Series provides static routing, allowing you to segment your network into workgroups that communicate between VLANs and so improve application performance by minimizing broadcast traffic. With these capabilities, one can reduce the load on your core devices, allowing you to create a scalable and efficient network. This also allows easier management of access control rules.

### Extensive Layer 2 Features

The X1510 Series switches are equipped with a complete line-up of Layer 2 features, including IGMP Snooping, Port Mirroring, Spanning Tree, and Link Layer Discovery Protocol (LLDP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfer. Network maintenance features include Loopback Detection and Cable Diagnostics. Loopback Detection automatically detects and shuts down loops created by a specific port or VLAN. The Cable Diagnostics feature, designed primarily for administrators, can determine cable quality and can quickly discover sections of cabling that need to be replaced.

### Traffic Classification & QoS

The X1510 Series supports Auto Surveillance VLAN (ASV) and Auto Voice VLAN, which are best suited for VoIP and video surveillance deployments. Auto Surveillance VLAN is a new, industry-leading technology built into XenOpt Smart switches. This technology consolidates data and surveillance video transmissions on all ports through a simple configuration on X1510 Series Smart Managed switch, saving businesses the costs of maintaining expensive dedicated hardware and infrastructure. ASV also ensures the quality of real-time video for monitoring and control without compromising the transmission of conventional network data by giving ASV traffic priority over other packets without requiring additional configuration of QoS.

### Keep Your Network Secure

Innovative Safeguard Engine protects the X1510 Series against traffic flooding caused by malicious attacks. The X1510 Series supports both MAC and web-based access control. This gives network administrators multiple authentication options, reducing deployment times and removing the need for client software. The X1510 Series supports IEEE 802.1X port-based authentication, allowing network users to be authenticated through external RADIUS servers. The Address Resolution Protocol (ARP) Spoofing Prevention feature helps to prevent attacks that may allow an intruder to intercept users' traffic while the DHCP Server Screening feature (DHCP relay) screens rogue DHCP server packets from



user ports to prevent unauthorized IP assignment.

### **IPv6 Ready**

The X1510 Series is IPv6 ready and supports various IPv6 functions such as MLD Snooping, IPv6 security features, and IPv6 Quality of Service (QoS), ensuring seamless integration with next generation networks. The X1510 Series also supports IPv4/v6 dual stack functionality, which allows the switches to act as a bridge between IPv4 and IPv6 networks.

### **Versatile Management**

The X1510 Series supports virtual stacking via Single IP Management (SIM), allowing up to 32 devices to be managed through a single IP address. This simplifies management of small workgroups or wiring closets while significantly reducing the number of IP addresses needed to manage your network. The X1510 Series provides a web-based management interface that enables administrators to easily set up and remotely manage their networks, greatly reducing switch deployment time. The X1510 Series also features an extensive industry standard Command Line Interface (CLI) and SNMP support, allowing centralized management of a large number of devices. Out-of-band management of the switches is also available via a designated console port. This provides access to devices in the event that there is a loss of connectivity or that the switch is overloaded with bulk or malicious traffic. Switches allow also ssh management authorized with public/private ssh key file pairs.

### **Energy Efficient**

All of the X1510 Series switches are capable of conserving power without sacrificing operational performance or functionality. Using the IEEE 802.3az Energy Efficient Ethernet (EEE) standard, the network will automatically decrease power usage when traffic is low and when connections are short. For environments that do not fully support this standard, these switches offer advanced power-saving settings including port shut-off, LED shut-off, and system hibernation based on custom profiles. These profiles can also be applied to the PoE switches so that there is no unnecessary power consumption during off-hours.

## Technical Specifications

General	X1510-20	X1510-28	X1510-52
Port Standards & Functions	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, 802.3ae 10 GbE, IEEE 802.3x Flow Control for Full-Duplex Mode, Auto-negotiation		
Number of Ports	16 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+	24 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+	48 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+
Network Cables	UTP Cat. 5, Cat. 5e (100 m max.) EIA/TIA-568 100-ohm STP (100 m max.)		
Full/Half Duplex	Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed		
Media Interface Exchange	Auto or configurable MDI/MDIX		
<b>Performance</b>			
Switching Capacity	76 Gbps	92 Gbps	140 Gbps
Transmission Method	Store-and-forward		
MAC Address Table	Up to 16,384 entries per device		
MAC Address Update	Up to 512 static MAC entries Enable/disable auto-learning of MAC addresses		
Maximum 64 bytes Packet Forwarding Rate	56.54 Mpps	68.45 Mpps	104.16 Mpps
Packet Buffer Memory	1.5 MB per device		3 MB per device
MTBF	882,152 hours	516,593 hours	433,434 hours
<b>Physical &amp; Environment</b>			
AC Input	100 to 240 VAC 50/60 Hz internal universal power supply		
Maximum Power Consumption	20.3 W	24 W	38.4 W
Standby Power Consumption	12.2 W	15.2 W	27.6 W
Smart Fan Quantity	1 x smart fan	1 x smart fan	2 x smart fans
Acoustics	43.8 dB(A)	43.8 dB(A)	44.2 dB(A)
Heat Dissipation	41.602 BTU/hr	72.292 BTU/hr	130.944 BTU/hr
Operation Temperature	-5 to 50 °C (23 to 122 °F)		
Storage Temperature	-20 to 70 °C (-4 to 158 °F)		
Operation Humidity	0% to 95% non-condensing		
Storage Humidity	0% to 95% non-condensing		
Dimensions	280 x 180 x 44 mm (11 x 7.09 x 1.73 inches) 19" standard rack mounting, 1U	440 x 210 x 44 mm (17.36 x 8.26 x 1.73 inches) 19" standard rack mounting, 1U	440 x 250 x 44 mm (17.36 x 9.84 x 1.73 inches) 19" standard rack mounting 1U
Weight	1.24 kg	2.00 kg	2.40 kg
Diagnostic LEDs	Power/Stacking ID/Fan (per device), Link/Activity/Speed (per 10/100/1000 Mbps port), Link/Activity/Speed (per Gigabit SFP port), Link/Activity/Speed (per 10G SFP+ port)		
Certifications	CE, FCC, C-Tick, VCCI, BSMI, CCC		
Safety	cUL, CB		

General	X1510-28X	X1510-52X
Port Standards & Functions	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T	
Number of Ports	24 x 10/100/1000Mbps, 4 x 10G SFP+	48 x 10/100/1000Mbps, 4 x 10G SFP+
Network Cables	UTP Cat. 5, Cat. 5e (100 m max.); EIA/TIA-568 100-ohm STP (100 m max.)	
Full/Half Duplex	Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed	
Media Interface Exchange	Auto or configurable MDI/MDIX	
<b>Performance</b>		
Switching Capacity	128Gbps	176Gbps
Transmission Method	Store-and-forward	
MAC Address Table	Up to 16,384 entries per device	
MAC Address Update	Up to 512 static MAC entries, Enable/disable auto-learning of MAC addresses	
Maximum 64 bytes Packet	95.24Mpps	130.95Mpps
Packet Buffer Memory	1.5 MB per device	3MB per device
MTBF	516,593 hours	416,789 hours
<b>Physical &amp; Environment</b>		
AC Input	100 to 240 VAC 50/60 Hz internal universal power supply	
Maximum Power Consumption	22.3 Watts	44.2 Watts
Standby Power Consumption	15.2 W	28.9 W
Smart Fan Quantity	1 x smart fan	2 x smart fans
Acoustics	42.7 dB(A)	45.8 dB(A)
Heat Dissipation	76.043 BTU/hr	138.787 BTU/hr
Operation Temperature	-5 to 50 °C (23 to 122 °F)	
Storage Temperature	-20 to 70°C (-4 to 158 °F)	
Operation Humidity	0% to 95% non-condensing	
Storage Humidity	0% to 95% non-condensing	
Dimensions	440mm x 210mm x 44mm	440mm x 250mm x 44mm
Weight	2.00 kg	2.40 kg
Diagnostic LEDs	Power/Stacking ID/Fan (per device), Link/Activity/Speed (per 10/100/1000 Mbps port),	
Certifications	CE, FCC, C-Tick, VCCI, BSMI, CCC	
Safety	cUL, CB	

General	X1510-28P	X1510-28XMP
Port Standards & Functions	IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, 802.3ae 10 GbE, IEEE 802.3x Flow Control for Full-Duplex Mode, Auto-negotiation	
Number of Ports	24 x 10/100/1000 Mbps PoE capable, 2 x Gigabit SFP, 2 x 10G SFP+	24 x 10/100/1000 Mbps PoE capable, 4 x 10G SFP+
Network Cables	UTP Cat. 5, Cat. 5e (100 m max.); EIA/TIA-568 100-ohm STP (100 m max.)	
Full/Half Duplex	Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed	
Media Interface Exchange	Auto or configurable MDI/MDIX	
<b>Performance</b>		
Switching Capacity	92 Gbps	128 Gbps
Transmission Method	Store-and-forward	
MAC Address Table	Up to 16,384 entries per device	
MAC Address Update	Up to 512 static MAC entries, Enable/disable auto-learning of MAC addresses	
Maximum 64 bytes Packet Forwarding Rate	68.45 Mpps	95.24 Mpps
Packet Buffer Memory	1.5 MB per device	
MTBF	275,428 hours	274,796 hours
<b>PoE</b>		
PoE Standard	IEEE 802.3af, 802.3at	
PoE Capable Ports	Ports 1 to 24: Up to 30 W	
PoE Power Budget	Max. 193 W	Max. 370 W
<b>Physical &amp; Environment</b>		
AC Input	100 to 240 VAC 50/60 Hz internal universal power supply	
Maximum Power Consumption	238.7 W (PoE on), 29 W (PoE off)	436.3 W (PoE on), 38.4 W (PoE off)
Standby Power Consumption	21 W	28.3 W
Smart Fan Quantity	2 x smart fans	
Acoustics	46.4 dB(A)	56.9 dB(A)
Heat Dissipation	813.967 BTU/hr	1487.78 BTU/hr
Operation Temperature	-5 to 50 °C (23 to 122 °F)	
Storage Temperature	-20 to 70°C (-4 to 158 °F)	
Operation Humidity	0% to 95% non-condensing	
Storage Humidity	0% to 95% non-condensing	
Dimensions	440 x 210 x 44 mm (17.36 x 8.26 x 1.73 inches) 19" standard rack mounting width, 1U height	440 x 308 x 44 mm (17.36 x 12.12 x 1.73 inches) 19" standard rack mounting width, 1U height
Weight	2.54 kg	4.25 kg
Diagnostic LEDs	Power/Stacking ID/Fan Error/PoE Push Button (per device), Link/Activity/Speed/PoE Mode (per 10/100/1000 Mbps port), Link/Activity/Speed (per SFP port), Link/Activity/Speed (per 10G SFP+ port)	
Certifications	CE, FCC, C-Tick, VCCI, BSMI, CCC	CE, FCC, C-Tick, VCCI, BSMI, CCC, IPv6 Ready Logo Phase 2
Safety	cUL, CB	cUL, CB



## Software Features

Stackability	<ul style="list-style-type: none"> <li>• Virtual Stacking Support</li> <li>• Single IP Management</li> <li>• Up to 32 devices per virtual stack full</li> <li>• Up to 20G stacking bandwidth</li> </ul>	<ul style="list-style-type: none"> <li>• Physical Stacking</li> <li>• Supports Duplex Chain/Ring topology</li> <li>• Up to 40G stacking bandwidth duplex <ul style="list-style-type: none"> <li>• Up to 6 units per stack</li> </ul> </li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>• MAC Address Table: Up to 16,384</li> <li>• Flow Control</li> <li>• 802.3x Flow Control</li> <li>• HOL Blocking Prevention</li> <li>• Jumbo Frame up to 9,216 Bytes</li> <li>• IGMP Snooping</li> <li>• IGMP v1/v2 Snooping</li> <li>• IGMP v3 awareness</li> <li>• Supports 512 IGMP groups</li> <li>• Supports 128 static multicast addresses</li> <li>• IGMP per VLAN</li> <li>• Supports IGMP Snooping Querier</li> <li>• Host-based IGMP Snooping Fast Leave</li> <li>• MVR multicast VLAN registration</li> <li>• MLD Snooping</li> <li>• Supports MLD v1/v2 awareness</li> <li>• Supports 512 groups</li> <li>• Supports 128 Static Multicast Addresses</li> <li>• Per VLAN MLD Snooping</li> <li>• Host-based MLD Fast Leave</li> <li>• MLD Snooping Querier</li> </ul>	<ul style="list-style-type: none"> <li>• Spanning Tree Protocol</li> <li>• 802.1D STP</li> <li>• 802.1w RSTP</li> <li>• 802.1s MSTP</li> <li>• Loopback Detection v4.072</li> <li>• 802.3ad Link Aggregation</li> <li>• Max. 32 groups per device /8 ports per group</li> <li>• Port Mirroring</li> <li>• Support 4 mirroring groups</li> <li>• One-to-One, Many-to-One</li> <li>• Supports Mirroring for Tx/Rx/Both</li> <li>• Multicast Filtering</li> <li>• Forwards all unregistered groups</li> <li>• Filters all unregistered groups</li> <li>• Ethernet Ring Protection Switching (ERPS)</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• 802.1Q Tagged VLAN</li> <li>• 4K VLAN Groups</li> <li>• Configurable VID: 0~4094</li> <li>• GVRP</li> <li>• Asymmetric VLAN</li> </ul>	<ul style="list-style-type: none"> <li>• Auto Surveillance VLAN 2.02</li> <li>• MAC-based VLAN</li> <li>• Protocol-based VLAN</li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>• CoS based on</li> <li>• 802.1p priority</li> <li>• VLAN</li> <li>• MAC address</li> <li>• Ether type</li> <li>• IP address</li> <li>• DSCP</li> <li>• Protocol type</li> <li>• TCP/UDP port number</li> <li>• DSCP of IPv6 Traffic Class</li> <li>• IPv6 flow label</li> </ul>	<ul style="list-style-type: none"> <li>• 802.1p Quality of Service</li> <li>• Queue Handling</li> <li>• Strict Priority Queue (SPQ)</li> <li>• Weighted Round Robin (WRR)</li> <li>• Deficit Round Robin (DRR)</li> <li>• SPQ + WRR</li> <li>• 8 queues per port</li> <li>• Bandwidth Control</li> <li>• Port-based (Ingress/Egress, min. granularity for 10/100/1000 BASE-T ports is 64 Kb/s)</li> </ul>
L3 Features	<ul style="list-style-type: none"> <li>• ARP</li> <li>• 256 Static ARP</li> <li>• Supports Gratuitous ARP</li> <li>• IPv6 Neighbour Discovery (ND)</li> <li>• 16 IP interfaces</li> </ul>	<ul style="list-style-type: none"> <li>• Default Routing</li> <li>• Static Routing</li> <li>• 64 IPv4 Static Route Entries</li> <li>• 32 IPv6 Static Route Entries</li> <li>• UDP helper2</li> </ul>

<p>Access Control List (ACL)</p>	<ul style="list-style-type: none"> <li>• ACL based on</li> <li>• 802.1p priority</li> <li>• VLAN</li> <li>• MAC address</li> <li>• Ether type</li> <li>• IP address</li> <li>• DSCP</li> <li>• Protocol type</li> <li>• TCP/UDP port number</li> <li>• DSCP of IPv6 Traffic Class</li> <li>• IPv6 flow label</li> </ul>	<ul style="list-style-type: none"> <li>• ACL Actions</li> <li>• Permit</li> <li>• Deny</li> <li>• Max. 256 access list</li> <li>• Max. 768 rules</li> <li>• Single or multiple ports (each rule)</li> <li>• Time-based ACL</li> <li>• ACL Statistics</li> </ul>
<p>Security</p>	<ul style="list-style-type: none"> <li>• Port Security</li> <li>• Supports up to 128 MAC addresses per port</li> <li>• Broadcast/Multicast/Unicast Storm Control</li> <li>• Dynamic ARP Inspection</li> <li>• Safeguard Engine</li> <li>• DHCP Server Screening</li> <li>• ARP Spoofing Prevention</li> <li>• Max. 64 entries</li> <li>• SSH</li> <li>• Supports v2</li> <li>• Supports IPv4/IPv6</li> <li>• BPDU Attack Protection</li> <li>• DoS Attack Prevention</li> </ul>	<ul style="list-style-type: none"> <li>• SSL</li> <li>• Supports v1/v2/v3</li> <li>• Supports IPv4/IPv6</li> <li>• Traffic Segmentation</li> <li>• IP-MAC-Port Binding</li> <li>• DHCP snooping</li> <li>• IP Source Guard</li> <li>• Dynamic ARP Inspection</li> <li>• IPv6 DHCP Guard</li> <li>• IPv6 RA Guard</li> <li>• IPv6 Snooping</li> <li>• IPv6 Source Guard</li> <li>• IPv6 ND Inspection</li> </ul>
<p>AAA</p>	<ul style="list-style-type: none"> <li>• Compound Authentication</li> <li>• 802.1X Port and MAC-based Authentication</li> <li>• Supports RADIUS and Local Server</li> <li>• Supports EAP, OTP, TLS, TTLS, PEAP</li> <li>• Web-based Access Control (WAC)</li> <li>• Port-based Access Control</li> <li>• Host-based Access Control</li> <li>• Dynamic VLAN Assignment</li> <li>• Guest VLAN</li> <li>• RADIUS and TACACS+ authentication for switch access</li> <li>• RADIUS and TACACS+ accounting</li> </ul>	<ul style="list-style-type: none"> <li>• MAC-based Access Control (MAC)</li> <li>• Port-based Access Control</li> <li>• Host-based Access Control</li> <li>• Dynamic VLAN Assignment</li> <li>• Japan Web-based Access Control (JWAC)</li> <li>• Port-based Access Control</li> <li>• Host-based Access Control</li> <li>• Dynamic VLAN Assignment</li> </ul>
<p>OAM</p>	<ul style="list-style-type: none"> <li>• Cable Diagnostics</li> <li>• sFlow</li> </ul>	<ul style="list-style-type: none"> <li>• Factory Reset</li> </ul>
<p>Management</p>	<ul style="list-style-type: none"> <li>• Command Line Interface (CLI)</li> <li>• Telnet Server</li> <li>• TFTP Client</li> <li>• IPv6 Neighbor Discovery</li> <li>• Configurable MDI/MDIX</li> <li>• SNMP</li> <li>• Supports v1, v2c, v3</li> <li>• SNMP Trap</li> <li>• System Log</li> <li>• Max. 10,000 log entries</li> <li>• Debug command</li> <li>• Dual images</li> <li>• Surveillance mode<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>• DHCP Client</li> <li>• Telnet client (supports CLI only)</li> <li>• SNTP</li> <li>• ICMPv6</li> <li>• IPv4/v6 Dual Stack</li> <li>• DHCP Auto Configuration</li> <li>• RMON v1</li> <li>• LLDP, LLDP-MED</li> <li>• DHCP relay</li> <li>• Web-based GUI                             <ul style="list-style-type: none"> <li>• TFTP Client</li> <li>• NTP</li> </ul> </li> </ul>



Green Technology	<ul style="list-style-type: none"><li>• Power Saving by:</li><li>• Link Status</li><li>• LED or Port Shutoff</li><li>• System Hibernation mode</li><li>• Time-based PoE (PoE model only)</li></ul>
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#### Notes

<sup>1</sup> When stacking in a linear typology, the remaining unused SFP+ ports in the stacking port pair of the top and bottom switches will also be considered occupied by the switch and cannot be used for any other purpose.

<sup>2</sup> This feature will be supported by firmware release version 1.40 and later, expected release in Q4 2016.

Ordering information<sup>1</sup>

PN	Description
<b>Switches</b>	
X1510-20	Switch, 16 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+
X1510-28	Switch, 24 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+
X1510-52	Switch, 48 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+
X1510-28X	Switch, 24 x 10/100/1000Mbps, 4 x 10G SFP+
X1510-52X	Switch, 48 x 10/100/1000Mbps, 4 x 10G SFP+
X1510-28P	Switch, 24 x 10/100/1000 Mbps PoE capable, 2 x Gigabit SFP, 2 x 10G SFP+
X1510-28XMP	Switch, 24 x 10/100/1000 Mbps PoE capable, 4 x 10G SFP+
<b>Cables 10 G<sup>2</sup></b>	
CP-SPSP-010	10 GbE SFP+ 1 m Direct Attach Cable
CP-SPSP-030	10 GbE SFP+ 3 m Direct Attach Cable
<b>Pluggables<sup>2</sup></b>	
XSS311-20LY	SFP, 1000BASE-LX, single mode, 20 km
XSM851-M5LY	SFP, 1000BASE-SX, multi mode, 550 m
XSM311-02LY	SFP, 1000BASE-SX, multi mode, 2 km
XTM85A-M3LY	SFP+, 10GBASE-SR Transceiver, 300 m OM3 MMF
XTS31A-10LY	SFP+, 10GBASE-LR Transceiver, 10 km
<b>Services</b>	
<b>Spare Power Supply Unit</b>	
<b>SW &amp; FW</b>	

## Notes:

<sup>1</sup> For accurate order specification please contact XenOpt reseller before placing an order. Standard MSA compatible pluggable components may not work or some function of these components may not be available in devices that require customized compatible devices.

<sup>2</sup> Other cables and pluggables are also available. For more information, please contact your XenOpt reseller.

To find out more, please contact:

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