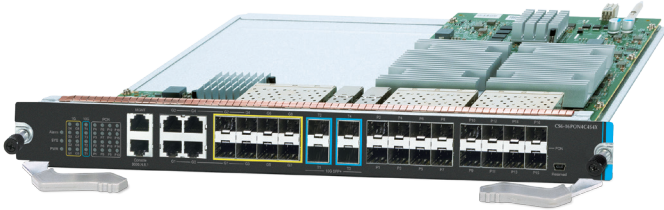


16-Port xPON + 4-Port Gigabit TP/SFP + 4-Port 1000BASE-X SFP + 4-Port 10GBASE-X SFP+ Management Module for CS-6303R and CS-6306R



High-Density GPON OLT Expansion Card for Core Network Applications

PLANET **CS6-16PON4C4S4X** is a high-performance GPON Optical Line Terminal (OLT) expansion card designed for use with the CS-6303R and CS-6306R chassis switches, which serve as core-layer routing switch systems. Featuring **16 GPON ports**, **4 Gigabit TP/SFP combo ports**, **4 Gigabit SFP ports**, **4 10G SFP+ ports**, and one management port, this expansion module delivers exceptional scalability and flexible configuration options. Engineered for enterprise networks, campus infrastructures, smart communities, ISPs, and large-scale data networks, it meets the demands for high-density access, high reliability, and advanced traffic management. Whether deployed for massive user access or complex traffic control, the CS6-16PON4C4S4X offers the performance, flexibility, and reliability needed for mission-critical, modern networking environments.



PLANET CS6-16PON4C4S4X GPON OLT module complies with **ITU-T G.984/G.988** and meets the technical requirements for GPON OLTs in network access. It is easy to install and maintain a GPON deployment with up to **1024 ONU** and HGU devices, providing highly-effective GPON solutions and convenient management for fiber optic broadband networks. It offers a high bandwidth of up to **2.5Gbps** downstream and **1.25Gbps** upstream, long-distance coverage of up to **20km** between equipment nodes, and flexibility for network deployment. This is a cost-effective access technology that provides a reliable and scalable network for triple-play service applications, such as HDTV, IPTV, voice-over-IP (VoIP), and multimedia.

CS6-16PON4C4S4X Hardware and Performance

- 16 GPON OLT SFP slots
- Up to 2.5Gbps downstream and 1.25Gbps upstream
- Maximum transmission distance of up to 20km
- Each PON port supports up to 128 ONTs/HGUs
- Compliant with G.984/G.988

CS6-16PON4C4S4X Physical Ports

- 4 10/100/1000BASE-T RJ45 copper ports (Ports 1 to 4)
- 8 100/1000BASE-X SFP ports (Ports 1 to 8)
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP+
- RJ45 to DB9 console interface for switch basic management and setup
- One 10/100BASE-TX management port

CS-6303R Hardware and Performance

- 3 open module slots:
 - Up to 2 management modules (Slots 2 and 3)
 - Up to 2 switch modules (Slots 1 and 2)
- Hot-swappable switching modules
- 1 RJ45 serial console interface on Management Module for switch basic management and setup
- MGMT port on Management Module for HTTP server access

CS-6306R Hardware and Performance

- 6 open module slots:
 - Up to 2 management modules (Slots 5 and 6)
 - Up to 4 switch modules (Slots 1 to 4)
- Hot-swappable switching modules
- 1 RJ45 serial console interface on Management Module for switch basic management and setup
- MGMT port on Management Module for HTTP access

OLT Management

- User-friendly GUI management
- 2 control interfaces
 - Out-of-Band IP – the management RJ45 port
 - In-Band IP – the Gigabit TP, SFP and 10G SFP+ uplink ports
- Supports ONT/HGU authentication; averts illegal ONT access to network

Incredibly Huge Bandwidth for Core Networking

- 40Gbps QSFP+
- Chassis Switch
- GPON Support
- IPv6 Management
- IGMP Snooping
- L3 OSPFv2/v3 Routing



**Max. 120x TP/SFP 8x 40G
40x 10G 48x GPON**

The CS-6300 series is a high-density chassis switch system equipped with 3 or 6 modular slots and redundant power supplies. By offering a variety of combinable management and switching modules, it provides exceptional deployment flexibility for network configurations. For example, the CS-6303R can support up to three CS6-16PON4C4S4X GPON modules, while the CS-6306R can accommodate up to six CS6-16PON4C4S4X GPON modules. Once fully equipped, the maximum number of functional ports is as follows:

	CS-6303R	CS-6306R
Total Module Slots	3 (CS6-16PON4C4S4X x3 PCS)	6 (CS6-16PON4C4S4X x6 PCS)
Power Supply Slots	3	3
Total Port Capacity		
Max. GPON Ports	48	96
Max. 10/100/1000BASE-T	12	24
Max. 1000BASE-X SFP Ports	12	24
Max. 10G SFP+ Ports	12	24

Carrier-Grade Reliability and Flexibility

The CS-6300 Series is positioned as a core-layer GPON chassis switch. When paired with the CS6-16PON4C4S4X GPON module, it offers advanced intelligence and security features, along with high performance and flexibility. Key components of the CS-6300 Series include the management module, GPON OLT module, power system, fan system, and a redundant power design. All system modules support hot-swapping and seamless failover without manual intervention, making it ideal for large-scale networks and IP metropolitan area networks.

High Split Ratio for a Cost-effective Network Solution

The CS6-16PON4C4S4X GPON module is an ideal solution for FTTx applications. It helps to minimize the investment cost for carriers by offering a high split ratio of **1:128** per port and supporting the usage of PLANET ONUs. The CS6-16PON4C4S4X GPON module provides strong functionalities for Ethernet features such as VLAN, Dynamic Bandwidth Allocation (**DBA**), Service Level Agreement (**SLA**) and Access Control List. GPON protocol allows a Gigabit Ethernet communications fiber to be shared by multiple end users using a passive optical splitter.

ONT/HGU Management

- ONT/HGU port control
- ONT/HGU VLAN mode

IP Routing Features

- Supports dynamic routing protocol: RIP and OSPF
- IPv4 static routing
- Routing interface provides per VLAN routing mode

Layer 2 Features

- Supports VLAN
 - IEEE 802.1Q tag-based VLAN
 - Provider Bridging (VLAN Q-in-Q, IEEE 802.1ad) supported
 - GVRP for dynamic VLAN management
- Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (static trunk)
- Supports Spanning Tree Protocol
 - STP, IEEE 802.1D (Classic Spanning Tree Protocol)
 - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
 - MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol, spanning tree by VLAN)
- Port mirroring to monitor the incoming or outgoing traffic on a particular port (many to 1)
- Supports G.8032 ERPS (Ethernet Ring Protection Switching)
- Loop protection to avoid broadcast loops
- Link Layer Discovery Protocol (LLDP)

Quality of Service

- Ingress shaper and egress rate limit per port bandwidth control
- 8 priority queues on all switch ports
 - IEEE 802.1p CoS/DSCP/Precedence
 - VLAN ID
 - Policy-based ingress and egress QoS

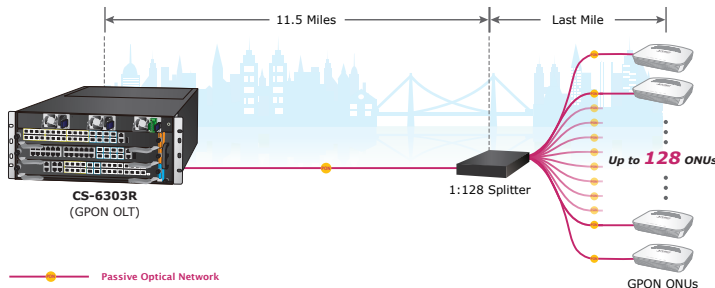
Multicast

- Supports IPv4 IGMP snooping v1, v2 and v3
- Supports IPv6 MLD snooping v1 and v2
- Querier mode support
- MVR (Multicast VLAN Registration)

Security

- Authentication
 - IEEE 802.1x port-based network access authentication

Point to Multi-Point Application



Flexible and Extendable 10Gb Ethernet Solution

Every CS6-16PON4C4S4X GPON module has four 10G SFP+ uplink ports to deliver ultra-high-speed networking over long distances to service providers. Each of the 10G SFP+ slots supports dual speed and **10GBASE-SR/LR** or **1000BASE-SX/LX**. With its 4 ports, 10G Ethernet link capability and additional 4-port 1G Ethernet link capability, the administrator now can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. The CS6-16PON4C4S4X provides broad bandwidth and powerful processing capacity for FTTx applications for distribution data link.

Layer 3 Routing Support

The CS6-16PON4C4S4X GPON OLT module enables the administrator to conveniently boost network efficiency by configuring Layer 3 static routing manually, the **RIP** (Routing Information Protocol) or **OSPF** (Open Shortest Path First) settings automatically.

- The RIP can employ the hop count as a routing metric and prevent routing loops by implementing a limit on the number of hops allowed in a path from the source to a destination.
- The OSPF is an interior dynamic routing protocol for autonomous system based on link-state. The protocol creates a link-state database by exchanging link-states among Layer 3 switches, and then uses the Shortest Path First algorithm to generate a route table based on that database.

Robust Layer 2 Features

The CS6-16PON4C4S4X GPON OLT module can be programmed for basic switch management functions such as port speed configuration, port aggregation, VLAN, Spanning Tree Protocol, WRR, bandwidth control and IGMP snooping. It also supports 802.1Q tagged VLAN, Q-in-Q and GVRP Protocol. In addition, the number of VLAN interfaces is 4K. By supporting port aggregation, the OLT allows the operation of a high-speed trunk combined with multiple ports. It enables up to 32 groups for trunking with a maximum of 8 ports for each group.

- Built-in RADIUS client to cooperate with the RADIUS servers
- RADIUS/TACACS+ users access authentication
- Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List (ACL)
 - Time-based ACL
- DHCP Snooping to filter distrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- IP Source Guard prevents IP spoofing attacks

Management

- IPv4 and IPv6 dual stack management
- Switch Management Interfaces
 - Console and Telnet Command Line Interface
 - HTTP web switch management
 - SNMP v1 and v2c switch management
 - SSHv2, SSLv3, TLSv1.0 and SNMP v3 secure access
- SNMP Management
 - Four RMON groups (history, statistics, alarms, and events)
 - SNMP trap for interface Link Up and Link Down notification
- Built-in Trivial File Transfer Protocol (TFTP) client
- BOOTP and DHCP for IP address assignment
- System Maintenance
 - Firmware upload/download via HTTP
 - Reset button for system reboot or reset to factory default
 - Dual images
- DHCP Functions:
 - DHCP Relay
 - DHCP Option 82
 - DHCP Server
- User Privilege levels control
- Network Time Protocol (NTP) and SNTP
- Network Diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
 - ICMP remote IP ping
- Syslog remote alarm
- System Log

Redundant Power System

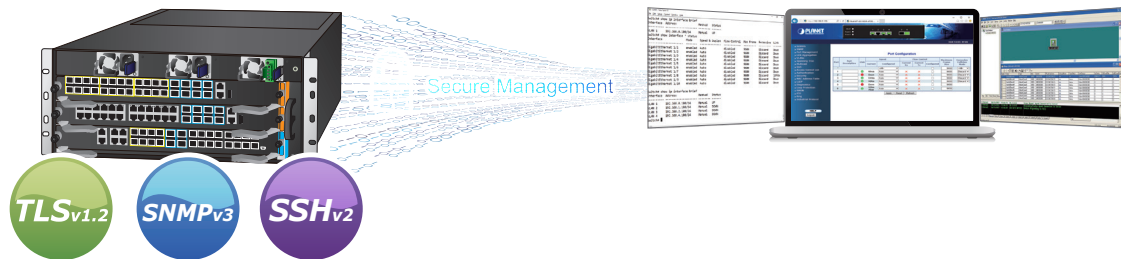
- 3 power slots
- 100~240V AC and 36-72V DC power redundancy
- Active-active redundant power failure protection
- Backup of catastrophic power failure on one supply

Efficient and Secure Management

For efficient management, the CS6-16PON4C4S4X GPON OLT module is equipped with console, Web and SNMP management interfaces.

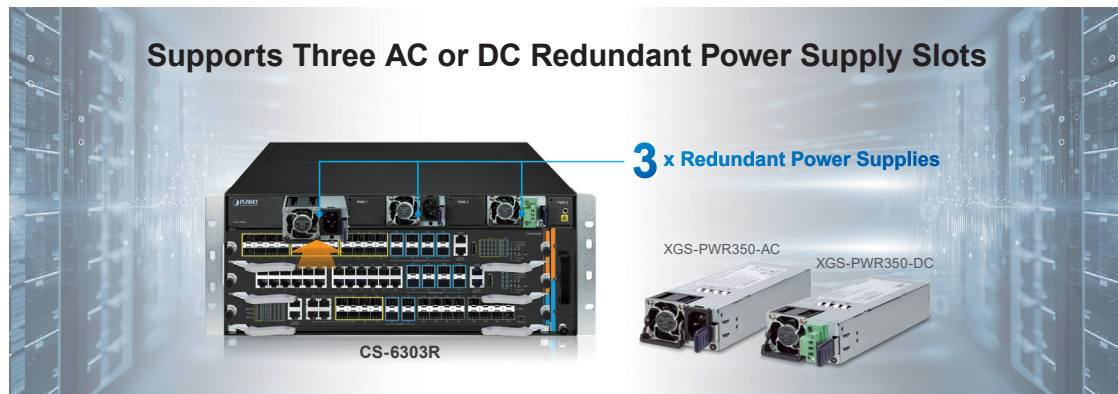
- With the built-in **Web-based** management interface, the chassis switch offers an easy-to-use, platform-independent management and configuration facility.
- For **text-based** management, it can be accessed via Telnet and the console port.
- For standard-based monitor and management software, it offers SNMPv3 connection which encrypts the packet content at each session for secure remote management.

Moreover, the chassis switches offers secure remote management by supporting SSHv2, TLSv1.0 and SSLv3 connection which encrypts the packet content at each session.



Extractive Power Supply Design for Enhanced Flexibility

The CS-6300 series is equipped with an extractable 100–240V AC power supply unit, making it easy for users to replace the power module. Additionally, the chassis switch reserves two extra backup power slots on the front panel, allowing users to install a second AC or DC power supply for redundancy. The AC and DC power options are interchangeable. The redundant power system is specifically designed to meet the demands of high-tech facilities requiring maximum power integrity.



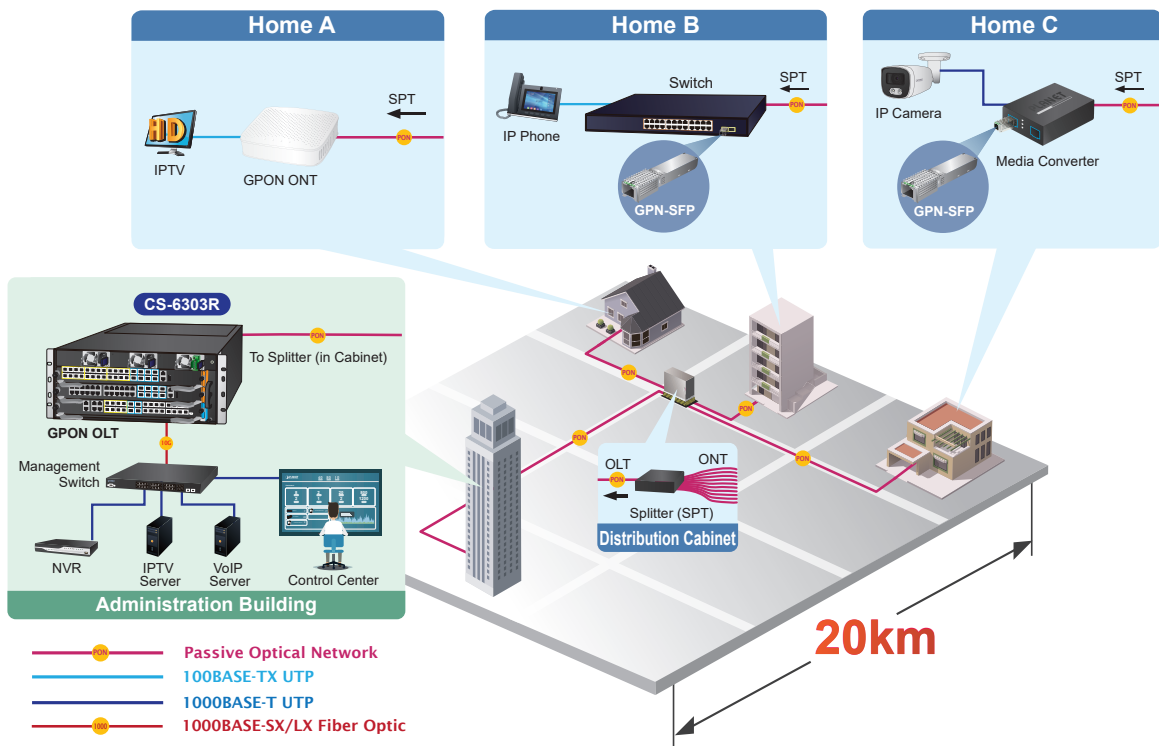
Applications

Cost-effective, Long-distance and High-bandwidth Triple Play or Surveillance Applications

PLANET CS6-16PON4C4S4X GPON OLT module delivers high-speed voice, data and video services to residential and business subscribers. With the PON technology, the CS6-16PON4C4S4X offers competitive advantages including a long-term life expectancy of the fiber infrastructure, lower operating costs from the reduction of "active" components, support of up to 20km distance between equipment nodes, easy Installation and maintenance, and most importantly, offering of much greater bandwidth.

The CS6-16PON4C4S4X is the perfect solution for triple play or surveillance applications by offering benefits of cost-effectiveness, scalability and flexibility to network deployment.

Fiber To The Home (FTTH) Application



Specifications

Product	CS6-16PON4C4S4X	
Hardware Specifications		
GPON Ports	16, supporting Class C+, Class C++ and Class B+	
10/100/1000BASE-T RJ45 Ports	4 TP/SFP combo interfaces (Ports 1 to 4)	
1000BASE-X SFP Slots	4, supporting 1000BASE-SX/LX/BX SFP transceiver Backward compatible with 100BASE-FX SFP transceiver	
10GBASE-X SFP+ Slots	4, supporting 10GBASE-SR/LR SFP+ transceiver Backward compatible with 1000BASE-X SFP transceiver	
Management Port	One 10/100BASE-TX RJ45 port	
Console	One RJ45-to-RS232 serial port (9600, 8, N, 1)	
CPU	600MHz	
RAM	2GB	
Flash Memory	256Mbit	
Dimensions (W x D x H)	399.15 x 302.9 x 40.1 mm	
Weight	2419g (net weight)	
Switch Fabric	128Gbps	
Switch Throughput	95Mpps@64bytes	
LED	1 x SYS LED – Green . 1 x PWR LED – Green 1 x Alarm LED – Red . LINK/ACT LED – Green GPON LED – Green	
Chassis Switch		
Chassis Name	CS-6303R	CS-6306R
Total Number of Slots	3	6
Allowed Module Slots	3 (With CS6-16PON4C4S4X Slots 1, 2, 3)	6 (With CS6-16PON4C4S4X Slots 1, 2, 3, 4, 5, 6)
Number of Fan Trays	1, hot-pluggable (2 axial fans)	1, hot-pluggable (4 axial fans)
Dimensions (W x D x H)	482.6 x 376.2 x 178.2 mm (with rack-mount kit) 4U high	482 x 370 x 397 mm (with rack-mount kit) 9U high
Weight	11kg (empty) 14.4kg (Chassis with 1 AC power module and 1 management module)	21.6kg (empty) 24.8kg (Chassis with 1 AC power module and 1 management module)
Number of Power Supply Bays	3	3
Power Requirement	AC: Input 100-240V~, 5A Max 50~60 Hz DC: Input 36-72V , 12.7A Max	AC: Input 100-240V~, 7A Max 50~60 Hz DC: Input 36-72V , 20A Max
Power Consumption	<350W	<550W
Total Port Capacity		
Max. GPON Ports	48	96
Max. 10/100/1000BASE-T	12	24
Max. 1000BASE-X SFP Ports	12	24
Max. 10G SFP+ Ports	12	24
Switching Performance		
Switch Processing Scheme	Store-and-Forward	
Switch Capacity	176Gbps	
Switch Throughput	232.128Mpps	
ACL Table	1856	
Routing Table	IPv4 Protocol: 16K IPv6 Protocol: 16K	
MAC Address Table	40K	
ARP Table	4K	
VLAN Table	4K VLAN entries	
Shared Data Buffer	2KB	
Multicast Table	2K	
Jumbo Frame	2KB	
Flow Control	IEEE 802.3x pause frame for full duplex Back pressure for half duplex	
GPON Specifications		
Transmission Speed	Downstream: 2.5Gbps Upstream: 1.25Gbps	
Optical Split Ratio	Up to 128	

Transmission Distance	20km
PON Module Wavelength	TX: 1490nm; RX: 1310nm
PON Fiber Type	9/125um SMF(Single mode fiber optic)
Layer 3 Functions	
IP Interfaces	Max. 1K VLAN interfaces for IPv4 Max. 256 VLAN interfaces for IPv6
Routing Protocols	Static routing RIP OSPF
IP Interfaces	Max. 1K VLAN interfaces for IPv4 Max. 256 VLAN interfaces for IPv6
Layer 2 Functions	
Port Configuration	Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable/enable Bandwidth control on each port Port loopback detect
Port Mirroring	TX/RX/Both Many to 1
VLAN	IEEE 802.1Q tag-based VLAN, up to 4K VLAN groups IEEE 802.1ad Q-in-Q VLAN stacking/tunneling GVRP for VLAN management
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
Multicast	IPv4 IGMP v1/v2/v3 snooping IPv4 Querier mode support IGMP Filtering and IGMP Throttling IGMP Proxy reporting IGMP multicast forwarding
IPv4 IGMP Snooping	IPv6 MLD v1/v2 snooping Multicast VLAN Register (MVR) Up to 2K multicast groups
Link Aggregation	IEEE 802.3ad Link Aggregation Control Protocol (LACP) Static trunk link aggregation Supports 32 groups with 8 ports per trunk group Up to 80Gbps bandwidth (full duplex mode) Load Balance Algorithm: - Source IP/destination IP/Source + destination IP Source MAC/destination MAC/Source + destination MAC
Storm Control	Per 100pps 1-14880
Bandwidth Control	At least 64Kbps stream
QoS	PON interfaces: Dynamic Bandwidth Allocation (DBA) Service Level Agreement (SLA) Limiting the upstream/downstream rate based on each ONT/ONU/HGU 8 priority queues on all switch ports Scheduling for priority queues - Weighted Round Robin (WRR) - Strict priority Traffic classification: - IEEE 802.1p CoS/DSCP/Precedence - VLAN ID Policy-based ingress and egress QoS
Ring	IGU-T G.8032 ERPS Ring

Security Functions

Access Control List	<p>Supports Standard and Expanded ACL</p> <ul style="list-style-type: none"> - IP-based ACL - MAC-based ACL - Time-based ACL <p>ACL based on:</p> <ul style="list-style-type: none"> - MAC Address - IPv4/IPv6 IP Address - Protocol-number - sport/dport - ToS/Precedence <p>Up to 1k entries</p>
Security	<p>Transmission data encryption on the PON interface</p> <p>MAC limitation</p> <p>MAC sticky</p> <p>Port isolation</p> <p>DHCP snooping</p> <p>Dynamic ARP inspection</p> <p>IP source guard</p>
AAA	TACACS+ and IPv4/IPv6 over RADIUS
Network Access Control	IEEE 802.1x port-based network access control

Management Functions

System Configuration	<p>Console and Telnet</p> <p>Web browser</p> <p>SNMP v1, v2c</p>
Secure Management Interfaces	<p>SSHv2, SSLv3</p> <p>Maximum 8 sessions for SSH and telnet connection</p>
System Management	<p>IPv4 and IPv6 dual stack management</p> <p>SNMP MIB and TRAP</p> <p>SNMP RMON 1, 2, 3, 9 four groups</p> <p>Firmware upgrade by HTTP/TFTP/FTP protocol through Ethernet network</p> <p>Configuration upload/download through HTTP/TFTP/FTP protocol</p> <p>Supports IEEE 802.1ab LLDP protocol</p> <p>NTP and SNTP client</p> <p>RADIUS authentication for IPv4/IPv6 login user name and password</p>
Event Management	<p>Remote syslog</p> <p>System log</p>
SNMP MIBs	<p>RFC 1213 MIB-II</p> <p>RFC 1215 Internet Engineering Task Force</p> <p>RFC 1271 RMON</p> <p>RFC 1354 IP-Forwarding MIB</p> <p>RFC 1493 Bridge MIB</p> <p>RFC 1643 Ether-like MIB</p> <p>RFC 1907 SNMPv2</p> <p>RFC 2011 IP/ICMP MIB</p> <p>RFC 2012 TCP MIB</p> <p>RFC 2013 UDP MIB</p> <p>RFC 2096 IP forward MIB</p> <p>RFC 2233 if MIB</p> <p>RFC 2452 TCP6 MIB</p> <p>RFC 2454 UDP6 MIB</p> <p>RFC 2465 IPv6 MIB</p> <p>RFC 2466 ICMP6 MIB</p> <p>RFC 2573 SNMPv3 notification</p> <p>RFC 2574 SNMPv3 VACM</p> <p>RFC 2674 Bridge MIB Extensions</p>

Standards Conformance

Regulatory Compliance	CE / FCC / LVD
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Standards Compliance	<p>IEEE 802.3z Gigabit 1000BASE-SX/LX IEEE 802.3ae 10Gb/s Ethernet IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1X port authentication network control IEEE 802.1ab LLDP RFC 768 UDP RFC 783 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 FRC 3810 MLD v2</p>
Environment	
Operating	<p>Temperature: 0 ~ 50 degrees C Relative Humidity: 10 ~ 90% (non-condensing)</p>
Storage	<p>Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 90% (non-condensing)</p>

Ordering Information

CS6-16PON4C4S4X	16-Port xPON + 4-Port Gigabit TP/SFP + 4-Port 1000BASE-X SFP + 4-Port 10GBASE-X SFP+ (SFP+ slot is backward compatible with 1000BASE-X SFP transceivers.)
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Available Chassis Switch

CS-6303R	3-Slot Layer 3 IPv6/IPv4 Routing Chassis Switch
CS-6306R	6-Slot Layer 3 IPv6/IPv4 Routing Chassis Switch

Available Power Modules

For CS-6303R:

XGS-PWR350-AC	350-watt AC power supply for XGS-6350-48X2Q4C(v2) (100V-240V AC)
XGS-PWR350-DC	350-watt 12VDC power supply for XGS-6350-48X2Q4C(v2) (36V~72V DC)

For CS-6306R:

CS6-PWR550-AC	550-watt AC Power Supply for CS-6306R, AC 100~240V
CS6-PWR550-DC	550-watt DC Power Supply for CS-6306R, DC 36~72V

Available Related Products

GPL-8000	8-Port GPON OLT with 4-Port Gigabit TP/SFP Combo + 4-Port 1000X SFP + 4-Port 10G SFP+
GPN-400AXV	GPON HGU with 4-Port GbE, 3000Mbps 802.11AX Wireless
GPN-400ACV	GPON HGU with 4-Port GbE, 1200Mbps 802.11ac Wireless and 2-Port FXS (1 x USB)
GPN-100	GPON SFU ONT with 1GbE Port
GPN-SFP	GPON ONU SFP Transceiver
GPL-GSFP-C+	GPON OLT SFP Transceiver (Class C+, Optical Power: 3dBm~7dBm, Download 2.5G/Upload 1.25G, TX: 1490nm, RX: 1310nm) - 20km
GPL-GSFP-C++	GPON OLT SFP Transceiver (Class C++, Optical Power: 4.5dBm~10dBm, Download 2.5G/Upload 1.25G, TX: 1490nm, RX: 1310nm) - 20km
EPL-SPT-32	GEPON Splitter (1 x 32 PLC Splitter, Wavelength 1230 ~ 1650 nm)
EPL-SPT-64	GEPON Splitter (1 x 64 PLC Splitter, Wavelength 1230 ~ 1650 nm)

Available 10Gbps Modules

MTB-LA10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1270nm RX:1330nm)
MTB-LB10	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 10km (TX:1330nm RX:1270nm)
MTB-LA20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1270nm RX:1330nm)
MTB-LB20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1330nm RX:1270nm)
MTB-LA40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1270nm RX:1330nm)
MTB-LB40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1330nm RX:1270nm)
MTB-LA60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1270nm RX:1330nm)
MTB-LB60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1330nm RX:1270nm)
MTB-RJ	1-Port 10GBASE-T SFP+ Copper Fiber Optic Module - 30m
MTB-SR	1-Port 10GBASE-SR SFP+ Fiber Optic Module - 300m
MTB-SR2	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 2km
MTB-LR	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 10km
MTB-LR20	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 20km
MTB-LR40	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 40km
MTB-LR60	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 60km
MTB-LR80	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 80km

Available 1000bps Modules

MGB-GT	SFP-Port 1000BASE-T Module
MGB-LX	SFP-Port 1000BASE-LX mini-GBIC Module - 20km
MGB-SX	SFP-Port 1000BASE-SX mini-GBIC Module - 550m
MGB-SX2	SFP-Port 1000BASE-SX mini-GBIC Module - 2km
MGB-L40	SFP-Port 1000BASE-LX mini-GBIC Module - 40km
MGB-L80	SFP-Port 1000BASE-LX mini-GBIC Module - 80km
MGB-LA10	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC Module - 10km
MGB-LB10	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC Module - 10km
MGB-LA20	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC Module - 20km
MGB-LB20	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC Module - 20km
MGB-LA40	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC Module - 40km
MGB-LB40	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC Module - 40km
MGB-LA80	SFP-Port 1000BASE-BX (WDM, TX:1490nm) mini-GBIC Module - 80km
MGB-LB80	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC Module - 80km

Available 100Mbps Modules

MFB-FX	SFP-Port 100BASE-FX Transceiver (1310nm) -2km
MFB-F20	SFP-Port 100BASE-FX Transceiver (1310nm) - 20km
MFB-FA20	SFP-Port 100BASE-BX Transceiver (WDM,TX:1310nm) -20km
MFB-FB20	SFP-Port 100BASE-BX Transceiver (WDM,TX:1550nm) -20km
MFB-F40	SFP-Port 100BASE-FX Transceiver (1310nm) - 40KM
MFB-F60	SFP-Port 100BASE-FX Transceiver (1310nm) - 60KM
MFB-F120	SFP-Port 100BASE -FX Transceiver (1550nm) - 120km

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