XGS-6350 Series



Layer 3 Multi-Port 10G SFP+ + 40G QSFP+ + 100G QSFP28 Managed Switch Series



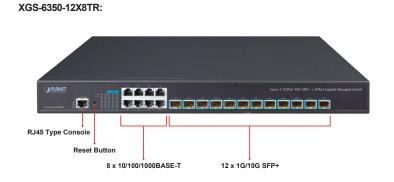
Powerful 100Gbps Solution for All Long-Reach Networks

PLANET XGS-6350-Series is a High-performance Layer 3 Managed Switch that meets the next-generation Metro, Data Center, Campus and Enterprise network requirements.

The administrator can flexibly choose the suitable transceivers according to the transmission distance or the transmission speed required to extend the 1G/10G/40G/100G network efficiently. Besides, with high switching capacity, the XGS-6350-Series can handle extremely large amounts of data in a secure topology linking to backbone or high capacity servers where audio, video streaming and multicast applications are utilized.

Models	Gigabit Port	10G SFP+	40G QSFP+	100G QSFP28	Power
XGS-6350-12X8TR	8 x 10/100/1000T	8	8	-	2 x AC
XGS-6350-24X2C	-	24	24	2	AC + AC/DC optional slot
XGS-6350-24X4C	-	24	24	4	AC + AC/DC optional slot
XGS-6350-48X2Q4C	-	48	48	4	AC + AC/DC optional slot





XGS-6350-12X8TR

- 8 10/100/1000BASE-T RJ45 ports
- 12 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- RJ45 to DB9 console interface for switch basic management and setup

XGS-6350-24X2C

- 24 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- 2 QSFP28 slots with each supporting native 100 Gigabit Ethernet, 40G and four 10 Gigabit Ethernet interfaces
- RJ45 to DB9 console interface for switch basic management and setup
- · MNG port for HTTP server access
- USB port

XGS-6350-24X4C

- 24 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- **4 QSFP28 slots** with each supporting native 100 Gigabit Ethernet, 40G and four 10 Gigabit Ethernet interfaces
- RJ45 to DB9 console interface for switch basic management and setup
- · MNG port for HTTP server access
- USB port

XGS-6350-48X2Q4C

- 48 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- 2 QSFP+ slots with each supporting 40G and four 10 Gigabit Ethernet interfaces
- **4 QSFP28** slots with each supporting native 100 Gigabit Ethernet, 40G and 4 x 10 Gigabit Ethernet modes
- RJ45 to DB9 console interface for switch basic management and setup
- · MNG port for HTTP server access
- USB port

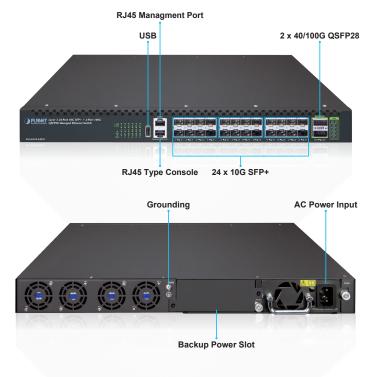
IPv4 Features

- Static Routing, RIP v1/v2, OSPF and BGP
- Policy Routing
- BFD for OSPF and BGP

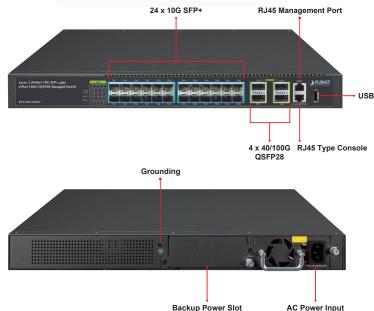




XGS-6350-24X2C:



XGS-6350-24X4C:



IPv6 Features

- ICMPv6, DHCPv6, ACLv6, IPv6 Telnet
- IPv6 Neighbor Discovery
- Path MTU Discovery
- MLD and MLD Snooping
- IPv6 Static Routing, RIPng, OSPFv3 and BGP4+
- Manual Tunnel, ISATAP Tunnel and 6-to-4 Tunnel

Multicast Routing Features

- Supports Multicast Routing Protocols:
 - PIM-DM (Protocol Independent Multicast Dense Mode)
 - PIM-SM (Protocol Independent Multicast Sparse Mode)
 - PIM-SSM (Protocol Independent Multicast Source-Specific Multicast Mode)
- Supports IGMP v1/v2/v3

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
 - Private VLAN
- 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)
- · Loop protection to avoid broadcast loops
- Link Layer Discovery Protocol (LLDP)
- Ethernet OAM 802.3ah/802.1ag/ITU-Y.1731
- Supports G.8032 ERPS (Ethernet Ring Protection Switching)

Quality of Service

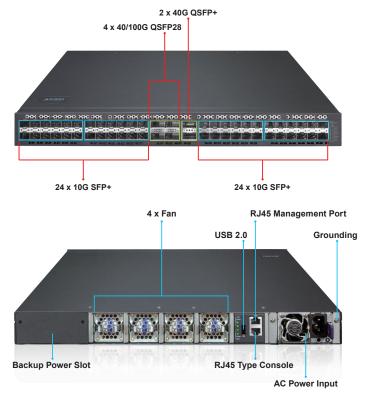
- · Ingress shaper and egress rate limit per port bandwidth control
- · 8 priority queues on all switch ports
 - IEEE 802.1p CoS/DSCP/Precedence
 - VLAN ID
 - Policy-based ingress and egress QoS

Multicast

- Supports IPv4 IGMP snooping v1, v2 and v3
- Supports IPv6 MLD snooping v1 and v2



XGS-6350-48X2Q4C:



Rich Multi-layer Networking Protocols

The XGS-6350-Series comes with the complete Layer 3 managed function with comprehensive protocols and applications to facilitate the rapid service deployment and management for both the traditional L2 and L3 networks. With support for advanced features, including **RIP**, **RIPng**, **OSPFv2**, **OSPFv3**, **BGP**, **BGP4+**, etc., this switch is ideal for the traditional or fully-virtualized data center.

Strong Multicast

The XGS-6350-Series supports abundant multicast features. In Layer 2, it features IPv4 IGMPv1/v2/v3 snooping and IPv6 MLD v1/v2 snooping. With Multicast VLAN Registration (MVR), multicast receiver/sender control and illegal multicast source detection functions can be had. In Layer 3 multicast protocols, it features **PIM-DM**, **PIM-SM** and **PIM-SSM** which make the XGS-6350-Series great for any robust networking.

Full IPv6 Support

The XGS-6350-Series supports **IPv4-to-IPv6 technologies including IPv4 manual/ automatic tunnel**, IPv6-to-IPv4 tunnel, and Intra-Site Automatic Tunnel Addressing Protocol (**ISATAP**) tunnel. It comprehensively supports IPv6 Neighbor Discovery, DHCPv6, Path MTU Discovery, IPv6-based Telnet, SSH and ACL, meeting the need of IPv6 network device management and service control.

High Reliability

The key components of the XGS-6350-Series are management module, power system and the fan system that support redundancy design. All system modules support hot-swap and seamless switching without manual intervention.

- · Querier mode support
- MVR (Multicast VLAN Registration)

Security

- Authentication
 - IEEE 802.1x port-based network access authentication
 - 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)
 - Port-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), SPAN, RSPAN
- Network Diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
 - ICMP remote IP ping
- Syslog remote alarm
- System Log
- · PLANET Smart Discovery Utility for deployment management



It supports In-service Software Upgrade (**ISSU**) and Graceful Restart (**GR**) for OSPF/ BGP routing protocol, guaranteeing non-stop user data transmission when the system is upgraded. It supports Bidirectional Forwarding Detection (**BFD**) that realizes fault detection and service recovery in seconds through linking with Layer 2 or Layer 3 protocol.

Excellent and Secure Traffic Control

The XGS-6350-Series is loaded with powerful traffic management and WRR features to enhance services offered by telecoms and enterprises. The **WRR** functionalities include wire-speed Layer 4 traffic classifiers and bandwidth limitation which are particularly useful for multi-tenant unit, multi-business unit, Telco, or network service applications.

Stacking Management

- Virtualized multiple XGS-6350 Series switches integrated into one logical device
- Single IP address stack management, supporting up to 4 hardware units stacked together
- Stacking architecture supports redundant Ring mode

Powerful Security from Layer 2 to Layer 4

The ACL policies supported can classify the traffic by source/destination IP addresses, source/destination MAC addresses, IP protocols, TCP/UDP, IP precedence, time ranges and ToS. Moreover, various policies can be conducted to forward the traffic. The XGS-6350-Series also provides IEEE 802.1x port-based access authentication, which can be deployed with RADIUS, to ensure the port level security and block illegal users. Thus, the XGS-6350-Series empowers enterprises and campuses to take full advantage of the limited network resources and guarantees the best performance in VoIP and video conferencing transmissions.

Robust Layer 2 Features

The XGS-6350-Series 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, voice VLAN and GVRP Protocol. In addition, the number of VLAN interfaces is 1K and the number of VLAN IDs is 4K. By supporting port aggregation, the XGS-6350-Series allows the operation of a high-speed trunk combined with multiple ports, making it an LACP link aggregation.

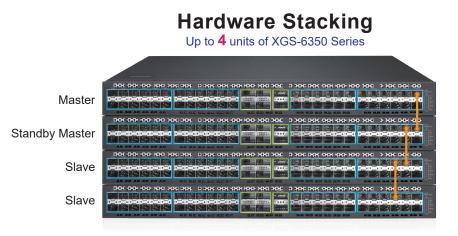
Efficient and Secure Management

For efficient management, the XGS-6350-Series Managed 100Gigabit Switch is equipped with console, Web and SNMP management interfaces.

- With its built-in Web-based management interface, the XGS-6350-Series offers an easy-to-use, platform-independent management and configuration facility.
- The XGS-6350-Series supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software.
- For reducing product learning time, the XGS-6350-Series offers Cisco-like command via Telnet or console port. Moreover, the XGS-6350-Series offers secure remote management by supporting SSH connection which encrypts the packet content at each session.

Centralized Hardware Stacking Management

The XGS-6350-Series can be used to build a virtually logical facility. The XGS-6350-Series gives the enterprises, service providers and telecoms flexible control over port density, uplinks and switch stack performance. The XGS-6350-Series can connect as a ring for redundancy and ensures that data integrity is retained even if one switch in the stack fails. You can even hot-swap switches without disrupting the network, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands.

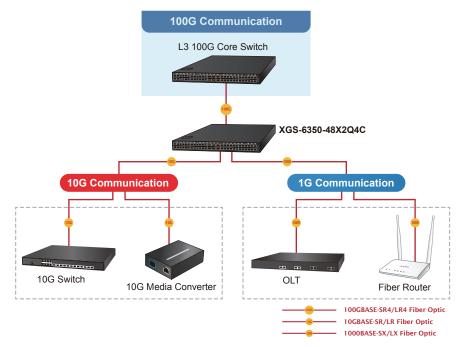




Flexibility and Extension Solution

The XGS-6350-Series provides 24/48 10Gbps SFP+, 40Gbps QSFP+ and 100Gbps QSFP28 fiber interfaces. Each of the SFP+ slots supports **Dual Speed**, **10GBASE-SR/LR** or **1000BASE-SX/LX** and each of the QSFP28 slots supports native **100 Gigabit Ethernet**, **40G and Four 10 Gigabit Ethernet interfaces**. Therefore, the administrator can flexibly choose the suitable SFP transceiver according to not only the transmission distance, but also the transmission speed required. The distance can be extended from 550 meters to 2km (multi-mode fiber) or up to 10/20/30/40/50/70/120 km (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

High Performance 100Gbps Server Service



Redundant Ring, Fast Recovery for Critical Network Applications

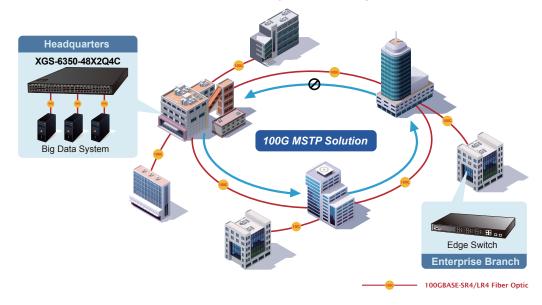
The XGS-6350-Series supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) technology and Spanning Tree Protocol (802.1s MSTP) into customer's network to enhance system reliability and uptime in harsh environments. In a certain simple Ring network, the recovery time could be less than 50ms to quickly bring the network back to normal operation.



Applications

High Availability Mesh Networking Solution for Big Data System

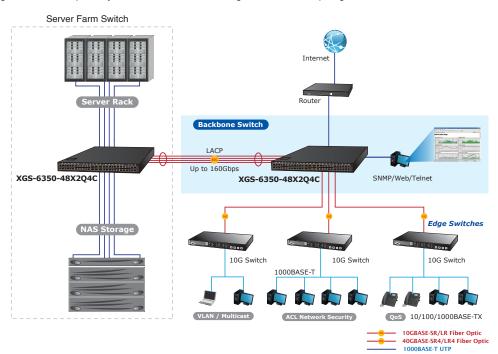
By means of improving the technology of Optical Fiber Ethernet with highly-flexible, highly-extendable and easy-to-install features, the XGS-6350 Series offers up to **1.92Tbps** data exchange speed via Optical Fiber interface and the transmission distance can be extended to 120km (single-mode fiber). The XGS-6350 Series features strong rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates **Multiple Spanning Tree Protocol** (802.1s MSTP) into customer's automation network to enhance system reliability and uptime. The XGS-6350 Series is the ideal solution for data centers, service providers and telecoms to build redundant connection and establish high bandwidth for **Big Data** server farm.



Reliable, High-performance and High-density Enterprise Backbone Switch

40/100 Gigabit Ethernet supported equipment has become the fundamental unit of enterprises and network servers. PLANET XGS-6350 Series is the costeffective, high-density and high-bandwidth chassis switch, which meets today's market requirements. Its dedicated chassis architecture feature makes all modules in the platform operate together as one much larger switch providing multiple high-performance 40/100-Gigabit Ethernet network for backbone of enterprises, campuses or telecoms.

The redundant management modules and three power supplies provide the XGS-6350 Series with nonstop network service ability. Moreover, all modules are hot-swappable. They can be added or exchanged without interrupting the operation of the whole system. The XGS-6350 Series is ideal for being a server farm switch connecting to servers and perfectly suitable for those networking environments requiring constant access to critical business applications.





Specifications

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Product	XGS-6350-12X8TR	XGS-6350-24X2C	XGS-6350-24X4C	XGS-6350-48X2Q4C
Hardware Specifications				
		2 with each supporting		
QSFP28 Slots	-	native 100/40 Gigabit		ive 100/40 Gigabit Ethernet
		Ethernet and four 10	and four 10 Gigabit Etherne	et interfaces
		Gigabit Ethernet interfaces		
				2, each supports 40
				Gigabit Ethernet and
QSFP+ Slots	-	-	-	four 10 Gigabit Ethernet
				interfaces
	12 10GBASE-SR/LR SFP+	24 10GBASE-SR/LR	24 10GBASE-SR/LR	48 10GBASE-SR/LR SFP
	interface	SFP+ interfaces	SFP+ interfaces	interfaces
SFP+ Slots				
SFFT 51015	Compatible with	Compatible with	Compatible with	Compatible with
	1000BASE-SX/LX/BX	1000BASE-SX/LX/BX	1000BASE-SX/LX/BX	1000BASE-SX/LX/BX
	SFP transceiver	SFP transceiver	SFP transceiver	SFP transceiver
Ethernet Ports	8 1000BASE-T RJ45 auto-	-	-	-
	MDI/MDI-X ports			
Console	1 x RJ45-to-DB9 serial por	t (9600, 8, N, 1)		
Management Port	-	1 x 10/100/1000BASE-T RJ	45 port	
USB	-	1 x USB 2.0		
	440 x 279.8 x 44 mm	442.5 x 300.1 x 44.6 mm	442.5 x 364 x 44 mm	442.5 x 403.5 x 44 mm
Dimensions (W x D x H)	1U height	1U height	1U height	1U height
Weight	4178g	5716g	5990g	8400g
-	55 watts/ 187.66 BTU	50.5 watts/172 BTU	75 watts/210 BTU	147 watts/504.3 BTU
Power Consumption	(maximum)	(maximum)	(maximum)	(maximum)
		· · · · · · · · · · · · · · · · · · ·		AC 100~240V, 50/60Hz
Power Requirements	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz	DC 36~72V (Optional
Fower Requirements	Redundant Power	AC 100°240V, 30/00112	AC 100°2400, 30/00112	
		0	0	power module)
Number of Power Supply Bays	-	2	2	2
Number of Fan/Fan Trays	2 fixed	4 fixed	4 fixed	4 slots
	System: PWR, SYS Green	System: PWR, SYS Green	System: PWR, SYS Green	System: PWRA, PWRB, Green SYS, Green MNG, Green
	Ports:	Ports:		Ports:
LED	10/100/1000T RJ45 Port:	10G SFP+ interfaces:	Ports:	10G SFP+ interfaces:
LED	LNK/ACT Green	LNK/ACT, Green	40G/100G QSFP Port:	LNK/ACT, Green
			LNK/ACT Green	40G/100G QSFP28
	1/10G SFP+ Slot:	40G/100G QSFP		interfaces: LNK/ACT,
	LNK/ ACT Green	Port: LNK/ACT Green		Green
				40G QSFP+ interfaces:
				LNK/ACT, Green
Flash	16MB	4096MB	32MB	64MB
DRAM	512MB	2048MB	1024MB	512MB
		20TOIVID		
ESD Protection	Contact ±6KV , Air ±8KV	amman mada : 41/1/		
Surge Protection	Differential mode ±2KV, C	ommon mode ±4KV		
Switching Specifications				
Switch Architecture	Store-and-forward	1	1	
Switch Capacity	256Gbps/non-blocking	880Gbps/non-blocking	1280Gbps/non-blocking	1.92Tbps/non-blocking
Switch Throughput	190Mpps	654Mpps@64bytes	952Mpps@64bytes	1440Mpps@64bytes
Address Table	32K	132K	32K	64K
Shared Data Buffer	3MB	4.5MB	4MB	9MB
Flow Control	Back pressure for half duple IEEE 802.3x pause frame for			
Jumbo Frame	9KB			
Layer 3 Routing Specifications				
	IPv4: 32K	IPv4: 16K	IPv4 Default 8K, Max16K	IPv4: 16K
Routing Table	IPv6: 8K	IPv6: 8K	IPv6 Default 4K, Max 12K	IPv6: 8K
ARP Table	IPv4: 8K	IPv4: 16K	IPv4: 10K	IPv4: 32K
	IPv6: 4K	IPv6: 8K	IPv6: 10K	IPv6: 16K



IPv4 Layer 3 Functions	
Trv4 Layer 5 Functions	RIP v1/v2
	OSPF
IP Routing Protocol	BGP (Border Gateway Protocol)
	Static routing
Multi- ant Dautian Dasta - al	PIM-DM and PIM-SM
Multicast Routing Protocol	PIM-SSM
	MSDP
	VRRP
	Policy-based routing
Routing Features	Load balance through equal-cost routing
	BFD (Bidirectional Forwarding Detection) for OSPF and BGP GRE tunnel
	GRE tunnel
IPv6 Layer 3 Functions	
	RIPng
IP Routing Protocol	OSPFv3
	BGP4+
	Manual tunnel
Routing Features	ISATAP tunnel
	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet
IPv6 Functions	IPv6 Neighbor Discovery
	Path MTU Discovery
Layer 2 Functions	
	Port disable/enable
	Auto-negotiation 10/100/1000Mbps full and half duplex mode selection
Port Configuration	Flow control disable/enable
	Bandwidth control on each port
	Port loopback detect
	IEEE 802.1Q tag-based VLAN,
	IEEE 802.1ad Q-in-Q VLAN stacking/tunneling
	GVRP for VLAN management
	Private VLAN
VLAN	Protocol-based VLAN
	MAC-based VLAN IP subnet-based VLAN
	Voice VLAN
	Multicast VLAN Register (MVR)
	Up to 4K VLAN groups
	IEEE 802.1D Spanning Tree Protocol (STP)
Spanning Tree Protocol	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
	BPDU protection, root protection
Ring	ITU-G G.8032 ERPS EAPS
	IPv4 IGMP v1/v2/v3 snooping IGMP Fast Leave
IPv4 IGMP Snooping	IPv4 Querier
in the following	IGMP Filtering and IGMP Throttling
	IGMP Proxy reporting
IPv6 MLD Snooping	IPv6 MLD v1/v2 snooping
n vo wieb shooping	Ingress and Egress
Bandwidth Control	At least 64Kbps stream
	IEEE 802.3ad LACP/static trunk
Link Aggregation	



QoS	 8 priority queues on all switch ports Traffic Supervision and Traffic Shaping Scheduling for priority queues Weighted Round Robin (WRR) Strict priority (SP) SP+WRR Traffic classification: IEEE 802.1p CoS DSCP DiffServ Precedence TOS VLAN ID IP ACL MAC ACL Port ACL Poitcy-based ingress and egress QoS 802.1p and DSCP priority remark
Authentication	IEEE 802.1x port-based network access control AAA authentication: TACACS+ and IPv4/IPv6 over RADIUS
Security Function	
Access Control List	Supports Standard and Expanded ACL IP-based ACL/MAC-based ACL/Port-based ACL Time-based ACL Up to 1K entries
Security	Port isolation Port security, supports IP + MAC + port binding Identification and filtering of L2/L3/L4 based ACL Defend against DOS or TCP attacks Suppression of broadcast, multicast and unknown unicast packet DHCP Snooping, DHCP Option 82 Command line authority control based on user levels
AAA	TACACS+ and IPv4/IPv6 over RADIUS
Network Access Control	IEEE 802.1x port-based network access control
Management Function	
System Configuration	Console and Telnet Web browser SNMP v1, v2c
Secure Management Interfaces	SSHv2, SSLv3 and SNMPv3 Maximum 8 sessions for SSH and Telnet connection
System Management	Supports both IPv4 and IPv6 ProtocolsSupports the user IP security inspection for IPv4/IPv6 SNMPSupports MIB and TRAPSupports TFTP, FTPSupports IPv4/IPv6 NTPSupports RMON 1, 2, 3, 9 groupsSupports the RADIUS authentication for IPv4/IPv6 Telnet user name and passwordThe right configuration for users to adopt RADIUS server's shell managementSupports CLI, console, TelnetSupports Security IP safety net management function: avoid unlawful landing at non-restrictive areaSupports TACACS+Supports SPAN, RSPAN
Stacking Management	4 members max.10 members max.4 members max.2 software-defined ports2 software-defined ports2 software-defined portsfunction as Stacking Upfunction as Stacking UpDown interfacesand Down interfacesand Down interfacesand Down interfaces
Event Menogement	
Event Management	Supports syslog server for IPv4 and IPv6



Standard Conformance PCC 1213 MID-11 RFC 1217 NAION RFC 1216 HoreNarding MID RFC 1216 HoreNarding MID RFC 1345 Bin-sike MID RFC 1345 Bin-sike MID RFC 1345 Bin-sike MID RFC 1345 Bin-sike MID RFC 1345 Bin-sike MID RFC 1345 Bin-sike MID RFC 1345 Bin-sike MID RFC 1317 DICAMP MID RFC 1317 DICAMP MID RFC 2315 DIP MID RFC 2316 DIP MID RFC 2315 TIPH MID RFC 2316 DIP MID RFC 2345 DIP MID RFC 2345 DIP MI		
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Ordering Information

XGS-6350-12X8TR	Layer 3 12-Port 10G SFP+ + 8-Port 10/100/1000T Managed Switch
XGS-6350-24X2C	Layer 3 24-Port 10G SFP+ + 2-Port 100G QSFP28 Managed Ethernet Switch
XGS-6350-24X4C	Layer 3 24-Port 10G SFP+ + 4-Port 100G QSFP28 Managed Switch
XGS-6350-48X2Q4C	Layer 3 48-Port 10G SFP+ + 2-Port 40G QSFP+ + 4-Port 100G QSFP28 Managed Switch



Related Products

XT-705A CB-DASFP-0.5M/2M 10G/5G/2.5G/1G/100M Copper to 10GBASE-X SFP+ Media Converter 10G SFP+ Directly-attached Copper Cable (0.5/2M in length)

Available Modules for XGS-6350 Series

100Gbps QSFP28 (100G Ethernet/100GBASE-SR4/LR4)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
QSFP-100G-SR4	YES	100G	MPO	Multi Mode	70m (OM3) 100m (OM4)	850nm	0 ~ 70 degrees C
QSFP-100G-LR4	YES	100G	LC	Single Mode	10km	1310nm	0 ~ 70 degrees C

40Gbps QSFP+ (40G Ethernet/40GBASE-SR4/LR4)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
QSFP-40G-SR4	YES	40G	MPO/MTP	Multi Mode	100m (OM3) 150m (OM4)	850nm	0 ~ 60 degrees C
QSFP-40G-LR4	YES	40G	LC	Single Mode	10km	1310nm	0 ~ 60 degrees C

40Gbps QSFP+ (40G Ethernet/40GBASE-SR4/LR4)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MTB-RJ	-	10G	Copper	-	30m	-	0 ~ 70 degrees C
MTB-SR	YES	10G	LC	Multi Mode	Up to 300m	850nm	0 ~ 60 degrees C
MTB-LR	YES	10G	LC	Single Mode	10km	1310nm	0 ~ 60 degrees C
MTB-TSR	YES	10G	LC	Multi Mode	Up to 300m	850nm	-40 ~ 85 degrees C
MTB-TLR	YES	10G	LC	Single Mode	10km	1310nm	-40 ~ 85 degrees C

10Gigabit SFP+ (10GBASE-BX, Single Fiber Bi-directional SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MTB-LA20	YES	10G	WDM (LC)	Single Mode	20km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB20	TES	10G	WDM (LC)	Single Mode	20km	1330nm	1270nm	0 ~ 60 degrees C
MTB-LA40	YES	10G	WDM (LC)	Single Mode	40km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB40	TES	10G	WDM (LC)	Single Mode	40km	1330nm	1270nm	0 ~ 60 degrees C
MTB-LA60	YES	10G	WDM (LC)	Single Mode	60km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB60	160	10G	WDM (LC)	Single Mode	60km	1330nm	1270nm	0 ~ 60 degrees C

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT	-	1000	Copper		100m		0 ~ 60 degrees C
MGB-SX(V2)	YES	1000	LC	Multi Mode	550m	850nm	0 ~ 60 degrees C
MGB-SX2(V2)	YES	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MGB-LX(V2)	YES	1000	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MGB-L40	YES	1000	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MGB-L80	YES	1000	LC	Single Mode	80km	1550nm	0 ~ 60 degrees C
MGB-L120(V2)	YES	1000	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C
MGB-TSX	YES	1000	LC	Multi Mode	550m	850nm	-40 ~ 85 degrees C
MGB-TSX2	YES	1000	LC	Multi Mode	2km	1310nm	-40 ~ 85 degrees C
MGB-TLX(V2)	YES	1000	LC	Single Mode	20km	1310nm	-40~ 85 degrees C
MGB-TL40	YES	1000	LC	Single Mode	40km	1310nm	-40 ~ 85 degrees C
MGB-TL80	YES	1000	LC	Single Mode	80km	1550nm	-40 ~ 85 degrees C



Gigabit Ethernet Transceiver (1000BASE-BX, Single Fiber Bi-directional SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MGB-LA10(V2)	YES	1000	WDM (LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB10(V2)	TEO	1000		Single Mode	TUKITI	1550nm	1310nm	0 ~ 00 degrees C
MGB-LA20(V2)	YES	1000	WDM (LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB20(V2)	TEO	1000		Silligie Mode	20611	1550nm	1310nm	0 ~ 00 degrees C
MGB-LA40(V2)	YES	1000	WDM (LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB40(V2)	TES	1000		Single Mode	40Km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA80	YES	1000	WDM (LC)	Cingle Mede	80km	1490nm	1550nm	0 ~ 60 degrees C
MGB-LB80	TES	1000 WDM (LC) Single Mode 80km	OUKIII	1550nm	1490nm	0 ~ 00 degrees C		
MGB-TLA10(V2)	YES	1000	WDM (LC)	Single Mode	10km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-TLB10(V2)	TEO	1000		Single Mode	TUKITI	1550nm	1310nm	-40 ~ 65 degrees C
MGB-TLA20	YES	1000	WDM (LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-TLB20	TES	1000		Silligle Mode	20KIII	1550nm	1310nm	-40 ~ 05 degrees C
MGB-TLA40	YES	1000	WDM (LC)	Cingle Mede	40km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-TLB40	160	1000		Single Mode	40KM	1550nm	1310nm	-40 ~ 65 degrees C
MGB-TLA80	YES	1000		Single Mede	80km	1490nm	1550nm	-40 ~ 85 degrees C
MGB-TLB80	169	1000	WDM (LC)	Single Mode	OUKIII	1550nm	1490nm	-40 ~ 65 degrees C

Fast Ethernet Transceiver (100BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MFB-FX	-	100	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MFB-F20	-	100	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MFB-F40	-	100	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MFB-F60	-	100	LC	Single Mode	60km	1310nm	0 ~ 60 degrees C
MFB-F120	-	100	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C
MFB-TFX	-	100	LC	Multi Mode	2km	1310nm	-40 ~ 85 degrees C
MFB-TF20	-	100	LC	Single Mode	20km	1310nm	-40 ~ 85 degrees C

Fast Ethernet Transceiver (100BASE-BX, Single Fiber Bi-directional SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MFB-FA20 MFB-FB20	-	100	WDM (LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
	-	100	WDM (LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C
MFB-TSA	YES	100	WDM (LC)	Multi Mode	2km	1310nm	1550nm	-40 ~ 85 degrees C
MFB-TSB	YES	100	WDM (LC)	Multi Mode	2km	1550nm	1310nm	-40 ~ 85 degrees C
MFB-TFA20 - MFB-TFB20 -	-	100	WDM (LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 85 degrees C
	-	100	WDM (LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 85 degrees C
MFB-TFA40	-	100	WDM (LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 85 degrees C
MFB-TFB40	-	100	WDM (LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 85 degrees C

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XGS-6350 Series

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