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

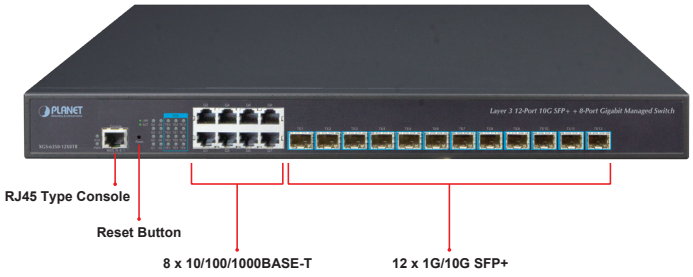
Powerful 100Gbps Solution for All Long-Reach Networks

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:



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

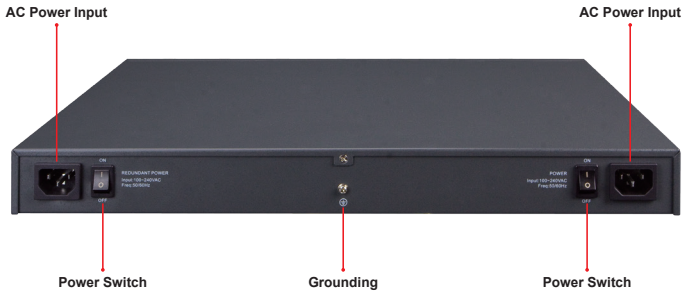
- **24 10GBASE-SR/LR SFP+** slots, compatible with 1000BASE-SX/LX/BX SFP
- **4 QSFP28 slots** with each supporting native 100 Gigabit Ethernet, 40G and four 10 Gigabit Ethernet interfaces
- RJ45 to DB9 console interface for switch basic management and setup
- MNG port for HTTP server access
- USB port

XGS-6350-48X2Q4C

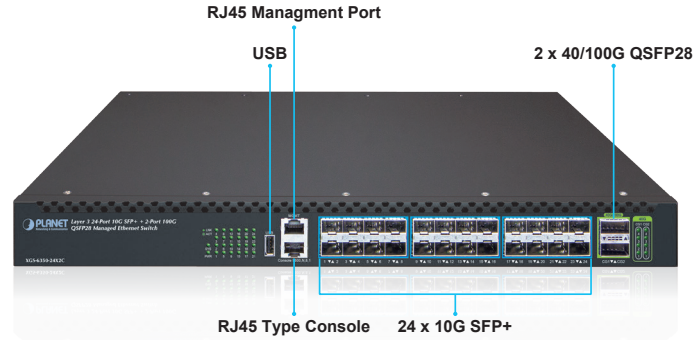
- **48 10GBASE-SR/LR SFP+** slots, compatible with 1000BASE-SX/LX/BX SFP
- **2 QSFP+ slots** with each supporting 40G and four 10 Gigabit Ethernet interfaces
- **4 QSFP28** slots with each supporting native 100 Gigabit Ethernet, 40G and 4 x 10 Gigabit Ethernet modes
- RJ45 to DB9 console interface for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

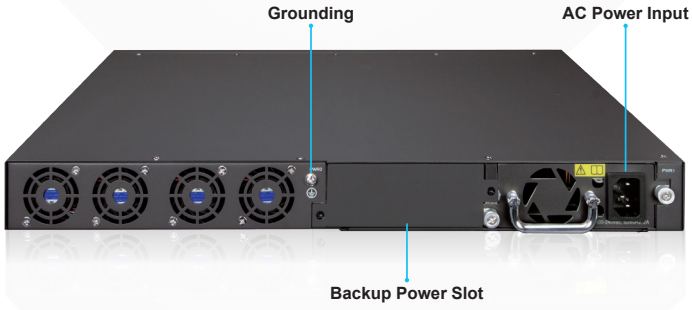
IPv4 Features

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



XGS-6350-24X2C:





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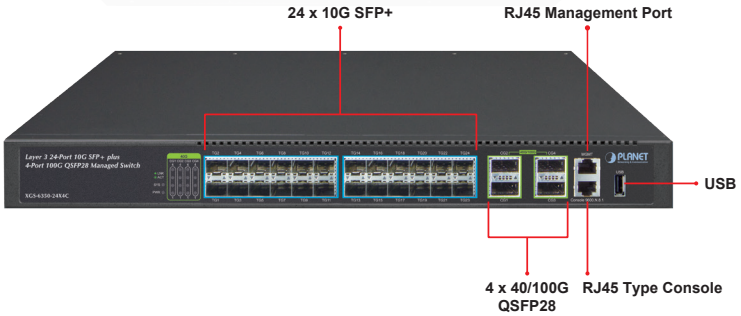
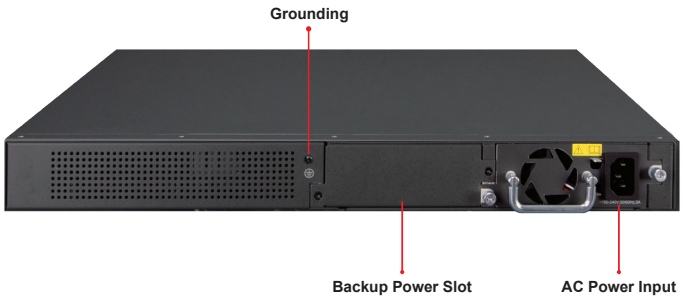




IPv6 Features

- 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)

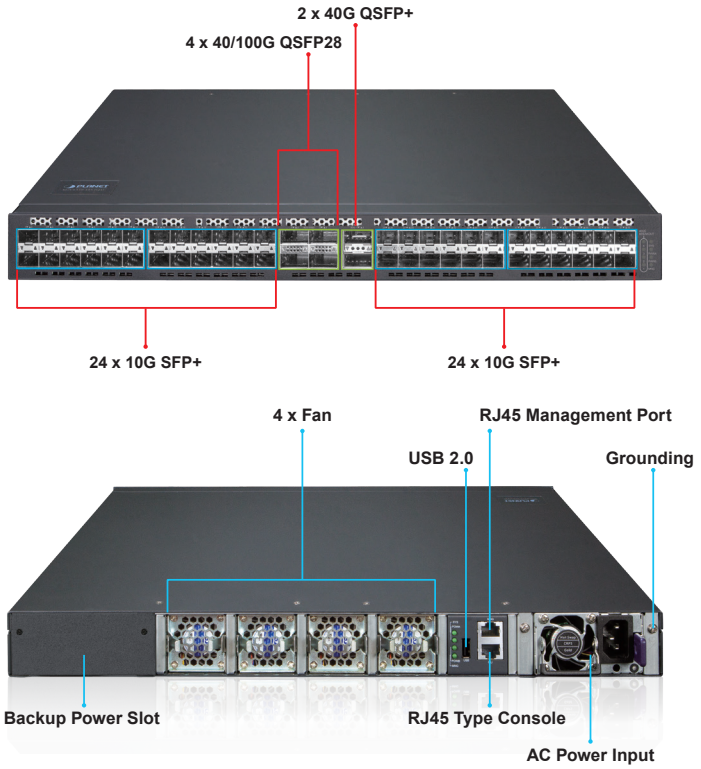
Quality of Service

- 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