

Layer 3 8-Port 2.5GBASE-T + Multiple 10G Uplink Managed Ethernet Switch



Perfect Managed Multigigabit Ethernet Switch with L3/L2 Switching and Security

PLANET MGS-6311-Series is a brand-new **Layer 3 managed multigigabit switch** providing **2.5Gbps** data over UTP cables, designed for the demand of high-bandwidth required network equipment, such as Wi-Fi 6 802.11ax wireless AP, NAS, workstation and those with 2.5GBASE-T interfaces. It features **8 10/100/1000/2500BASE-T** copper ports and 2 extra 1G/10GBASE-X SFP+ fiber ports that are flexibly designed to extend the connection distance.

The MGS-6311 series provides high-density performance, Layer 3 static routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). With 10Gbps interfaces, it can handle extremely large amounts of data in a secure topology linking to an enterprise backbone or high-capacity servers. The powerful network security features make the MGS-6311 series perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.

The hardware specifications of these models are shown below:

Models	10/100/1000/2500T Copper	100/1G/2.5G/5G/10GT Copper	1000/10G SFP+	PoE Ports	Power Input
MGS-6311-8P2X	8		2	8at	AC
MGS-6311-10T2X	8	2	2		AC

2.5Gbps Capability for Diversified Bandwidth Applications

With the terminal access rates of 802.11ac/ax wireless APs reaching as high as 1.2Gbps to 3.6Gbps, Gigabit ports have been unable to satisfy the demand. Supporting 2.5Gbps capability and 802.3af/at PoE output, the MGS-6311 series can deliver not only data to 802.11ac/ax wireless APs, but also power with the existing CAT5e Ethernet cables to other powered devices such as APs and IP cameras. It can definitely give you the speed you demand and its Plug and Play makes installation easy

IP Routing Features

- IP routing protocol supports RIPv1/v2, OSPFv2
- · Routing interface provides per VLAN routing mode
- · Supports route redistribution

Layer 2 Features

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3ab,
 IEEE 802.3z, IEEE 802.3bz, IEEE 802.3an Gigabit Ethernet standard
- · Prevents packet loss flow control
 - IEEE 802.3x pause frame flow control in full-duplex mode
 - Back pressure flow control in half-duplex mode
- High performance Store-and-Forward architecture, broadcast storm control, port loopback detection
- 16K MAC address table, automatic source address learning and aging
- Supports VLAN
 - IEEE 802.1Q tag-based VLAN
 - GVRP for dynamic VLAN management
 - Provider Bridging (VLAN Q-in-Q, IEEE 802.1ad) supported
- Private VLAN Edge (PVE) supported
- GVRP protocol for Management VLAN
- Protocol-based VLAN
- MAC-based VLAN
- IP subnet VLAN
- Supports Link Aggregation
 - Maximum 64 trunk groups, up to 8 ports per trunk group
 - IEEE 802.3ad LACP (Link Aggregation Control Protocol)
 - 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)
 - Supports BPDU & root guard
- Port mirroring to monitor the incoming or outgoing traffic on a particular port (many to many)
- Provides port mirror (many-to-1)
- · Supports G.8032 ERPS (Ethernet Ring Protection Switching)

Quality of Service

• 8 priority queues on all switch ports

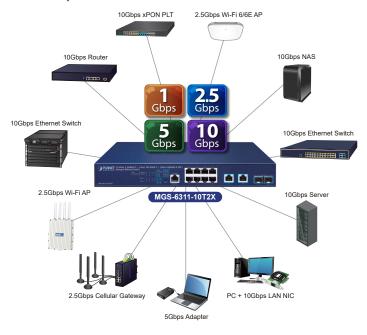


New Generation of Multigigabit Switch



10GBASE-T and 10GBASE-X SFP Dual Media Interfaces for Diversified Bandwidth Applications

PLANET MGS-6311-10T2X has the capability to reach a high speed of 10Gbps over copper or fiber-optic cabling which helps to accelerate the performance of large data transmission. The built-in 10GBASE-T copper interfaces support 5-speed (10G/5G/2.5G/1G/100) auto-negotiation, and 10Gbps data transmission with the existing Cat6A/Cat7 UTP cabling, meaning the speed can be increased without costs. It can definitely give you the speed you demand and its Plug and Play makes installation easy.





- Support for strict priority and WRR (Weighted Round Robin)
 CoS policies
- · Traffic classification
 - IEEE 802.1p CoS/ToS
 - IPv4/IPv6 DSCP
 - Port-based WRR
- Strict priority and WRR CoS policies

Multicast

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

Security

- IEEE 802.1x port-based network access authentication
- · MAC-based network access authentication
- Built-in RADIUS client to cooperate with the RADIUS servers for IPv4 and IPv6
- · TACACS+ login users access authentication
- IP-based Access Control List (ACL)
- MAC-based Access Control List
- · Supports DHCP snooping
- Supports ARP inspection
- IP Source Guard prevents IP spoofing attacks
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding

Management

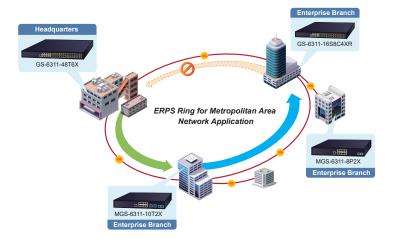
- Management IP for IPv4 and IPv6
- · Switch Management Interface
 - Console/Telnet Command Line Interface
- Web switch management
- SNMP v1, v2c, and v3 switch management
- SSHv2/TLSv1.2 secure access
- · BOOTP and DHCP for IP address assignment
- Firmware upload/download via TFTP or HTTP Protocol for IPv4 and IPv6
- SNTP (Simple Network Time Protocol) for IPv4 and IPv6
- User privilege levels control
- · Syslog server for IPv4 and IPv6
- · Supports DDM



The fiber-optic 10GBASE-X SFP+ interfaces of the MGS-6311 series support dual speeds, 10GBASE-SR/LR and 1000BASE-SX/LX, meaning 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.

Redundant Ring, Fast Recovery for Critical Network Applications

The MGS-6311 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 15ms to quickly bring the network back to normal operation.



Layer 3 Routing Support

The MGS-6311 series 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 database for link state 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.

Strong Multicast

The MGS-6311 series supports abundant multicast features. In Layer 2, it features IPv4 IGMPv1/v2/v3 snooping and IPv6 MLD v1/v2 snooping. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detect functions which make the MGS-6311 series great for any robust networking.

- Four RMON groups 1, 2, 3, 9 (history, statistics, alarms and events)
- · Supports sFlow
- Supports ULDP
- Supports ULPP (Uplink Protection Protocol)
- Supports ULSM (Uplink State Monitor protocol)
- · Supports LLDP/LLDP MED
- Supports DHCP Option82/43/60/61/67
- · Supports ping, trace route function for IPv4 and IPv6
- PLANET Smart Discovery Utility for deployment management

Power over Ethernet (MGS-6311-8P2X)

- · Complies with IEEE 802.3at/af Power over Ethernet Plus
- Up to 8 ports of IEEE 802.3af/802.3at devices powered
- · Supports PoE power up to 32 watts for each PoE port
- · Supports maximum 150-watt PoE budget
- · Auto detects powered device (PD)
- · Circuit protection prevents power interference between ports
- · Remote power feeding up to 100 meters
- PoE management
 - Total PoE power budget control
 - Per port PoE function enable/disable
- PoE port power feeding priority
- Per PoE port power limitation
- PD classification detection
- PoE schedule

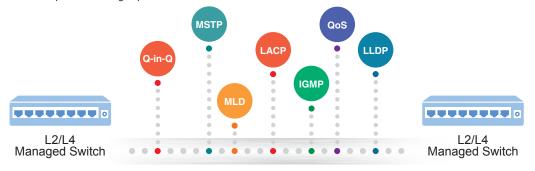


Full IPv6 Support

The MGS-6311 series provides **IPv6 management** and enterprise-level secure features such as **SSH**, **ACL**, **WRR** and **RADIUS** authentication. It thus helps the enterprises to step in the IPv6 era with the lowest investment. In addition, you don't need to replace the network facilities when the IPv6 FTTx edge network is built.

Robust Layer 2 Features

The MGS-6311 series can be programmed for basic switch management functions such as port speed configuration, port aggregation, VLAN, Multiple Spanning Tree Protocol, bandwidth control and IGMP snooping. This switch provides 802.1Q tagged VLAN, Q-in-Q, voice VLAN and GVRP Protocol functions. By supporting port aggregation, the MGS-6311 series allows the operation of a high-speed trunk combined with multiple ports. It enables up to 64 groups for trunking with a maximum of 8 ports for each group.



Excellent Layer 2 to Layer 4 Traffic Control

The MGS-6311 series is loaded with powerful traffic management and WRR features to enhance services offered by telecoms. 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. It also empowers the enterprises to take full advantage of the limited network resources and guarantees the best in VoIP and video conferencing transmission.

Powerful Network Security

The MGS-6311 series offers comprehensive Layer 2 to Layer 4 **Access Control List** (ACL) for enforcing security to the edge. It can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network applications. Its protection mechanism also comprises 802.1x Port-based, MAC-based and web-based user and device authentications, which can be deployed with RADIUS, to ensure the port level security and block illegal users.

Advanced IP Network Protection

The MGS-6311 series also provides DHCP Snooping, IP Source Guard and Dynamic ARP Inspection functions to prevent IP snooping from attack and discard ARP packets with invalid MAC address. The network administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

Efficient and Secure Management

For efficient management, the MGS-6311 series is equipped with console, Web and SNMP management interfaces.

- With the built-in Web-based management interface, the MGS-6311 series 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 reducing product learning time, the MGS-6311 series offers Cisco-like command and customer doesn't need to learn new command from these switches
- For standard-based monitor and management software, it offers SNMPv3 connection which encrypts the packet content at each session for secure remote management.

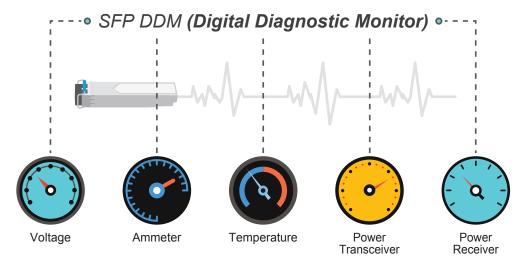
Moreover, the MGS-6311 series offers secure remote management by supporting SSHv2 connection which encrypts the packet content at each session.





Intelligent SFP Diagnosis Mechanism

The MGS-6311 series supports **SFP-DDM** (**Digital Diagnostic Monitor**) function that greatly helps network administrator to easily monitor real-time parameters of the SFP and SFP+ transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.



Centralized Power Management for Gigabit Ethernet PoE Networking

To fulfill the needs of higher power required PoE network applications with Gigabit speed transmission, the MGS-6311-8P2X provides 8 10/100/1000/2500BASE-T high-performance Gigabit IEEE 802.3at PoE+ ports with each port delivering up to 32 watts. It perfectly meets the power requirements of PoE VoIP phone and all kinds of PoE IP cameras such as IR, PTZ, speed dome cameras or even box type IP cameras with built-in fan and heater.

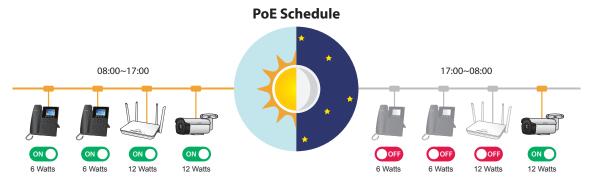
The MGS-6311-8P2X's PoE capabilities also help to reduce deployment costs for network devices as a result of freeing from the restrictions of power outlet locations. Power and data switching are integrated into one unit, delivered over a single cable and managed centrally. It thus eliminates the cost for additional AC wiring and reduces installation time.

Intelligent Powered Device Alive Check

The MGS-6311-8P2X can be configured to monitor connected PD (powered device) status in real time via ping action. Once the PD stops working and responding, the MGS-6311-8P2X will resume the PoE port power and bring the PD back to work. It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing the administrator's management burden.

PoE Schedule for Energy Savings

Besides being used for IP surveillance, the MGS-6311-8P2X is certainly applicable to build any PoE network including VoIP and wireless LAN. Under the trend of energy saving worldwide and contributing to the environmental protection on the Earth, the MGS-6311-8P2X can effectively control the power supply besides its capability of giving high watts power. The "PoE schedule" function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save energy and budget.



Total Consumption of 36 watts/hr

Save 24 watts/hr during off-business hours * Total Saved = 10800watts/month

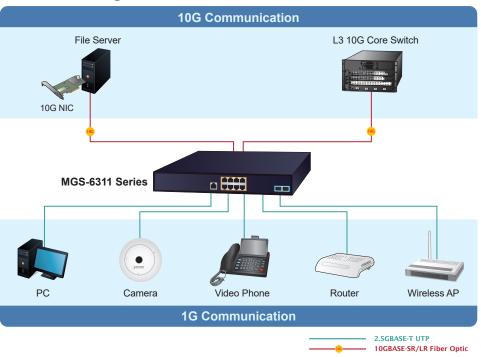


Applications

Excellent Solution to Enterprise Security and QoS Switch

The MGS-6311 series performs 80/120 Gigabits per second non-blocking switch fabric, so it can easily provide a local 10Gbps high bandwidth Ethernet network for the backbone of your department. With the two built-in SFP+ ports, the MGS-6311 series provides the uplink to the backbone network through the 10G Ethernet LR/SR SFP+ modules. It further improves the network efficiency and protects the network clients by offering the security and QoS features.

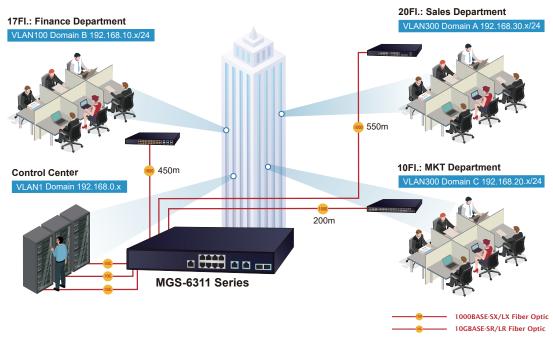
High Performance Server Service



Layer 3 VLAN Routing

With the built-in robust Layer 3 traffic routing protocols, the MGS-6311 series ensures reliable routing between VLANs and network segments. The routing protocols can be applied via VLAN interface. The MGS-6311 series is certainly a cost-effective and ideal solution for enterprises.

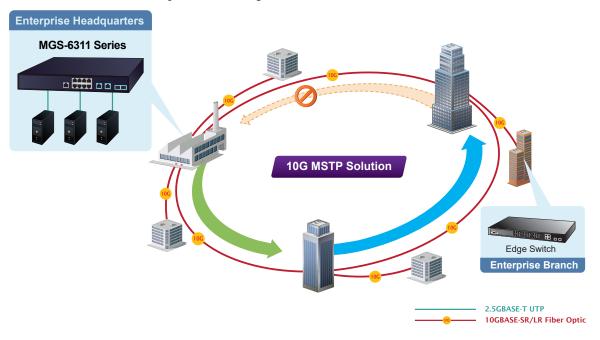
VLAN Routing + 10G Uplink Applications





High Availability Mesh Networking Solution for Big Data System

With highly-flexible, highly-extendable and easy-to-install features, the MGS-6311 series offers up to 80/120Gbps data exchange speed via optical fiber interface and the transmission distance can be extended to 120km. The MGS-6311 series features strong, rapid, self-recovery capability to prevent interruptions and external intrusions. It incorporates IEEE 802.1s MSTP (Multiple Spanning Tree Protocol, spanning tree by VLAN) into customer's automation network to enhance system reliability and uptime. The MGS-6311 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.



Specifications

Opecinications			
Product	MGS-6311-8P2X	MGS-6311-10T2X	
Hardware Specifications			
10/100/1000/2500 RJ45 Ports	8	8	
100/1G/2.5G/5G/10G RJ45 Ports		2	
	2	2	
10G SFP+ Ports	10GBASE-SR/LR SFP+ interface		
	Backward compatible with 1000BASE-SX/LX/BX SFP transceiver		
Console Port	1 x RJ45-to-RS232 serial port (9600, 8, N, 1)		
CPU	MIPS 800MHz		
RAM	512Mbytes		
Flash Memory	32Mbytes		
Dimensions (W x D x H)	330 x 230 x 43.6 mm, 1U height	330 x 230 x 43.6 mm, 1U height	
Weight	2172g	1953g	
De la Cara	10.7 watts / 36.4BTU (System)	00.0	
Power Consumption	174 watts/ 593.3 BTU (System+PoE)	26.6 watts/ 90.7 BTU	
Power Requirements- AC	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz	
Fan	1	1	
	System:	System:	
	PWR (Green), SYS (Green)	PWR (Green), SYS (Green)	
	Ports:	Ports:	
	Per 2.5GBASE-T RJ45 Ports:	Per 2.5GBASE-T RJ45 Ports:	
	2500Mbps LNK/ACT (Green)	2500Mbps LNK/ACT (Green)	
	10/100/1000Mbps LNK/ACT (Amber)	10/100/1000Mbps LNK/ACT (Amber)	
	802.3at/af PoE-in-Use (Amber)		
LED		Per 10GBASE-T RJ45 Ports:	
LED	Per 10GBASE-X SFP Ports:	10G LNK/ACT (Green)	
	10G LNK/ACT (Green)	100/1G/2.5G/5G LNK/ACT (Amber)	
	1G LNK/ACT (Amber)		
		Per 10GBASE-X SFP Ports:	
		10G LNK/ACT (Green)	
		1G LNK/ACT (Amber)	



Switching Specifications		
Switch Architecture	Store-and-forward	Store-and-forward
Switch Fabric	80Gbps/non-blocking	120Gbps/non-blocking
Switch Throughput	59.52Mpps	89.28Mpps
Address Table	16K MAC address table with auto learning function	16K MAC address table with auto learning function
ARP Table	8K	8K
Routing Table	6K	6K
P Interface		1024
	1024 4K	4K
ACL Table		
Shared Data Buffer	12MB	12MB
Multicast Table	1K	1K
Jumbo Frame	12KBytes	
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex	
Power over Ethernet Specifications		
PoE Standard	IEEE 802.3at PoE+ PSE	
PoE Power Supply Type	End-span	
PoE Power Output	32W(max.)	
Power Pin Assignment	1/2(-), 3/6(+)	
PoE Power Budget	150 watts (max.)	
Pv4 Layer 3 Functions		
P Routing Protocol	Static route RIPv1/v2 OSPFv2	
_ayer 3 Protocol	ARP ARP Proxy IGMP Proxy	
Pv6 Layer 3 Functions		
Other	ICMPv6,ND,DNSv6	
ayer 2 Functions		
Port Configuration	Port disable/enable Flow control disable/enable Bandwidth control on each port Port loopback detect	
Port Status		control status and auto negotiation status
/LAN	Display each port's speed duplex mode, link status, flow control status and auto negotiation status 802.1Q tagged VLAN, up to 4K VLAN groups 802.1ad Q-in-Q (VLAN stacking) GVRP for VLAN management Private VLAN Edge (PVE) supported Protocol-based VLAN MAC-based VLAN IP subnet VLAN	
Bandwidth Control	TX/RX/Both	
	IEEE 802.3ad LACP/static trunk	
_ink Aggregation	Supports 64 groups with 8 ports per trunk group	
QoS	8 priority queues on all switch ports Supports strict priority and Weighted Round Robin (WR Traffic classification: - IEEE 802.1p CoS/ToS - IPv4/IPv6 DSCP - Port-based WRR	R) CoS policies
Multicast	IPv4 IGMP v1/v2/v3 snooping IPv4 Querier mode support IPv6 MLD v1/v2 snooping Multicast VLAN Register (MVR) Up to 1024	
Security Functions		
Access Control List	Supports Standard and Expanded ACL IP-based ACL/MAC-based ACL Time-based ACL Up to 4K entries	



	Port isolation
	Supports IP + MAC + port binding
	Identification and filtering of L2/L3/L4 based ACL
Security	Defend against DOS or TCP attacks
	Suppression of broadcast, multicast and unknown unicast packet
	DHCP Snooping, DHCP Option 82/43/60/61/67
	Command line authority control based on user levels
AAA	TACACS+ and IPv4/IPv6 over RADIUS
Authentication	IEEE 802.1x port-based network access control
Switch Management Functions	
System Configuration	Console, Telnet, Web browser, SNMP v1, v2c
Secure Management Interfaces	SSHv2, TLSv1.2, SNMPv3
Management	IPv4 and IPv6 dual stack management User IP security inspection for IPv4/IPv6 SNMP SNMP v1, v2c and v3 SNMP MIB and TRAP SNMP RMON 1, 2, 3, 9 four groups IPv4/IPv6 FTP/TFTP IPv4/IPv6 NTP RADIUS authentication for IPv4/IPv6 Telnet user name and password IPv4/IPv6 SSH The right configuration for users to adopt RADIUS server's shell management CLI, console, Telnet Security IP safety net management function: avoid unlawful landing at nonrestrictive area Syslog server for IPv4 and IPv6 TACACS+ PLANET Smart Discovery Utility
SNMP MIBs	RFC 1213 MIB-II RFC 1215 Internet Engineering Task Force RFC 1271 RMON RFC 1354 IP-Forwarding MIB RFC 1493 Bridge MIB RFC 1493 Bridge MIB RFC 1643 Ether-like MIB RFC 1907 SNMP v2 RFC 2011 IP/ICMP MIB RFC 2012 TCP MIB RFC 2013 UDP MIB RFC 2033 if MIB RFC 2233 if MIB RFC 2452 TCP6 MIB RFC 2454 UDP6 MIB RFC 2465 IPv6 MIB RFC 2573 SNMP v3 notify RFC 2574 SNMP v3 vacm RFC 2674 Bridge MIB Extensions (IEEE 802.1Q MIB) RFC 2674 Bridge MIB Extensions (IEEE 802.1P MIB)
Standard Conformance	
	ECC Part 15 Class A. CE
Regulatory Compliance	FCC Part 15 Class A, CE



	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX
	IEEE 802.3z Gigabit 1000BASE-SX/LX
	IEEE 802.3ab Gigabit 1000BASE-T
	IEEE 802.3bz Gigabit 2.5G, 5GBASE-T
	IEEE 802.3an Gigabit 10GBASE-T
	IEEE 802.3ae 10Gb/s Ethernet
	IEEE 802.3x flow control and back pressure
	IEEE 802.3ad port trunk with LACP
	IEEE 802.1ag CFM
	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
Chandanda Canadiana	IEEE 802.1ab LLDP
Standards Compliance	IEEE 802.3af Power over Ethernet
	IEEE 802.3at Power over Ethernet PLUS
	RFC 768 UDP
	RFC 783 TFTP
	RFC 793 TCP
	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
	RFC 3810 MLD v2
	RFC 2328 OSPF v2
	RFC 1058 RIP v1
	RFC 2453 RIP v2
	ITU-T G.8032 ERPS Ring
Environments	
Operating	Temperature: 0 ~ 50 degrees C
Operating	Relative Humidity: 5 ~ 90% (non-condensing)
Characa	Temperature: -10 ~ 70 degrees C
Storage	Relative Humidity: 5 ~ 90% (non-condensing)
	,

Ordering Information

MGS-6311-8P2X	L3 8-Port 2.5GBASE-T 802.3at PoE + 2-Port 10GBASE-X SFP+ Managed Ethernet Switch (150W)
MGS-6311-10T2X	L3 8-Port 2.5GBASE-T + 2-Port 10GBASE-T + 2-Port 10GBASE-X SFP+ Managed Ethernet Switch

Related Products

XGS-6311-12X	Layer 3 12-Port 10GBASE-X SFP+ Managed Ethernet Switch
GS-6311-24T4X	L3 24-Port 10/100/1000T + 4-Port 10G SFP+ Managed Ethernet Switch
GS-6311-24HP4X	L3 8-Port 802.3bt PoE + 16-Port 802.3at PoE + 4-Port 10G SFP+ Managed Ethernet Switch
GS-6311-16S8C4XR	L3 16-Port 100/1000X SFP + 8-Port Gigabit TP/SFP + 4-Port 10G SFP+ Managed Ethernet Switch with
	36-72V DC Redundant Power
GS-6311-48T6X	L3 48-Port 10/100/1000T + 6-Port 10G SFP+ Managed Ethernet Switch
GS-6311-48P6X	L3 48-Port 10/100/1000T 802.3at PoE + 6-Port 10G SFP+ Managed Ethernet Switch
XGS-6350-48X2Q4C	Layer 3 48-Port 10G SFP+ + 2-Port 40G QSFP+ + 4-Port 100G QSFP28 Managed Switch



Available Modules for MGS-6311 series

10Gigabit Ethernet Transceiver

MTB-LB40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1330nm RX:1270nm) (-40~85°C)
MTB-LA40	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 40km (TX:1270nm RX:1330nm) (-40~85°C)
MTB-LB20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1330nm RX:1270nm) (-40~85°C)
MTB-LA20	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 20km (TX:1270nm RX:1330nm) (-40~85°C)
MTB-SR	1-Port 10GBASE-SR SFP+ Fiber Optic Module - 300m (-40~85°C)
MTB-LR	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 10km (-40~85°C)
MTB-LA60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1270nm RX:1330nm) (-40~85°C)
MTB-LB60	1-Port 10GBASE-BX SFP+ Fiber Optic Module - 60km (TX:1330nm RX:1270nm) (-40~85°C)
MTB-LR40	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 40km (-40~85°C)
MTB-SR2	1-Port 10GBASE-SR SFP+ Fiber Optic Module – 2km (-40~85°C)
MTB-LR20	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 20km (-40~85°C)
MTB-LR60	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 60km (-40~85°C)
MTB-LR80	1-Port 10GBASE-LR SFP+ Fiber Optic Module - 80km (-40~85°C)

Gigabit Ethernet Transceiver (1000BASE-X SFP)

•	·
MGB-GT	SFP-Port 1000BASE-T Module (-40~85°C)
MGB-LX	SFP-Port 1000BASE-LX mini-GBIC module - 20km (-40~85°C)
MGB-SX	SFP-Port 1000BASE-SX mini-GBIC module - 550m (-40~85°C)
MGB-SX2	SFP-Port 1000BASE-SX mini-GBIC module - 2km (-40~85°C)
MGB-L40	SFP-Port 1000BASE-LX mini-GBIC module - 40km (-40~85°C)
MGB-L80	SFP-Port 1000BASE-LX mini-GBIC module - 80km (-40~85°C)
MGB-LA10	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module - 10km (-40~85°C)
MGB-LB10	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 10km (-40~85°C)
MGB-LA20	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module - 20km (-40~85°C)
MGB-LB20	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 20km (-40~85°C)
MGB-LA40	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module - 40km (-40~85°C)
MGB-LB40	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 40km (-40~85°C)
MGB-LA80	SFP-Port 1000BASE-BX (WDM, TX:1490nm) mini-GBIC module - 80km (-40~85°C)
MGB-LB80	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 80km (-40~85°C)
MGB-LA120	SFP-Port 1000BASE-BX (WDM, TX:1490nm) mini-GBIC module - 120km (-40~85°C)
MGB-LB120	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module - 20km (-40~85°C)

Email: sales@planet.com.tw

Fax: 886-2-2219-9528 www.planet.com.tw

