

**Planet MGSW-
24160F 16-Port
100/1000Base-X
SFP + 8-Port
10/100/1000Base-
T L2/L4
Managed Metro
Ethernet Switch
(AC+2 DC, DIDO)**



Model: MGSW-24160F

Manufacturer: PLANET

EAN: 4711213688522

Product Code: 1576989

R13,254

**PLANET MGSW-24160F Network Switch Managed L2+ Gigabit Ethernet
(10/100/1000) Power over Ethernet (PoE) 1U Blue**

PLANET MGSW-24160F Network Switch

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Multiple SFP Fiber Port Switch for All Long-Reach Network Customers

PLANET MGSW-24160F is ideal for all long-reach network customers, such as enterprises, telecoms, campuses and service providers as it comes with advanced management functions, and 16 100/1000Mbps dual speed SFP Fiber ports and 8 10/100/1000Mbps TP ports with a rugged case. It is capable of providing non-blocking switch fabric and wire-speed throughput of as high as 48 Gbps in the temperature range from 0 to 60 degrees C without any packet loss and CRC error. Thus, it is certainly a must for those who want to further upgrade their existing network infrastructures to a level where bandwidth demands can be met. Furthermore, it adopts “Front Access” design for easy wiring and maintenance of the MGSW-24160F when placed in the cabinet.

Flexibility and Extension Solution

The 16 mini-GBIC slots built in the MGSW-24160F support dual speed as it features 100BASE-FX and 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber-optic modules. The administrator can flexibly choose the suitable SFP transceiver when considering transmission distance and speed. The distance can be extended from 550 meters to 2km for multi-mode fiber, and up to 10/20/30/40/50/70/120 kilometers for single-mode fiber or WDM fiber. They are well suited for applications within the enterprise data centers and distributions.

Intelligent SFP Diagnosis Mechanism

The MGSW-24160F supports SFP-DDM (Digital Diagnostic Monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

AC and DC Redundant Power to Ensure Continuous Operation

The MGSW-24160F is equipped with one 100~240V AC power supply unit and one additional 36~60V DC power supply unit for redundant power supply installation. A redundant power system is also provided to enhance the reliability with either AC or DC power supply unit. The redundant power system is specifically designed to handle the demands of high-tech facilities requiring the highest power integrity. Furthermore, with the 36~60V DC power supply implemented, the MGSW-24160F can be applied as the telecom level device.

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Effective Alarm Alert for Better Protection

The MGSW-24160F supports a Fault Alarm feature which can alert the users when there is something wrong with the switches. With this ideal feature, the users would not have to waste time to find where the problem is. It will help to save time and human resource.

Digital Input and Digital Output for External Alarm

The MGSW-24160F helps the network administrators efficiently manage the unexpected network situations by providing Digital Input and Digital Output for external alarm device on the front panel. The Digital Input can be used to detect and log the status of the external devices such as door intrusion detector. The Digital Output could be used to send alarm whenever the MGSW-24160F has port link-down or power failure.

IPv6 / IPv4 Dual Stack

Supporting both IPv6 and IPv4 protocols, the MGSW-24160F helps data centers, campuses, telecoms, and more to experience the IPv6 era with the lowest investment as its network facilities need not to be replaced or overhauled if the IPv6 FTTx edge network is set up.

Layer 3 IPv4 and IPv6 VLAN Routing for Secure and Flexible Management

The MGSW-24160F switch not only provides ultra high transmission performance, and excellent layer 2 and layer 4 technologies, but also layer 3 IPv4/IPv6 VLAN routing feature which allows to crossover different VLANs and different IP addresses for the purpose of having a highly-secured, flexibly-managed and simple networking application.

Robust Layer 2 Features

The MGSW-24160F can be programmed for advanced switch management functions such as dynamic port link aggregation, Q-in-Q VLAN, private VLAN, Multiple Spanning Tree Protocol (MSTP), Layer 2 to Layer 4 QoS, bandwidth control and IGMP/MLD Snooping. Via the link aggregation of supporting ports, the MGSW-24160F allows the operation of a high-speed trunk to combine with multiple fiber ports and supports fail-over as well.

Powerful Security

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The MGSW-24160F offers a 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 and MAC-based user and device authentication. With the private VLAN function, communication between edge ports can be prevented to ensure user privacy. The MGSW-24160F 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-secured corporate networks with considerably less time and effort than before.

Excellent Traffic Control

The MGSW-24160F is loaded with powerful traffic management and QoS features to enhance connection services by telecoms and ISPs. The QoS features include wire-speed Layer 4 traffic classifiers and bandwidth limit that are particularly useful for multi-tenant unit, multi-business unit, Telco, or network service provider's applications. It also empowers the enterprises to take full advantage of the limited network resources and guarantees the best performance in VoIP and video conferencing transmission.

Efficient and Secure Management

With built-in Web-based management interface, the MGSW-24160F L2+ Managed Switch offers an easy-to-use, platform-independent management and configuration facility which includes Console, Web and SNMP management interfaces. The SNMP can be managed via any management software based on the standard of SNMP protocol. For reducing product learning time, it offers Cisco-like command via Telnet or console port and customer does not need to learn new console command. Moreover, it also offers secure remote management by supporting SSH, SSL and SNMP v3 connections which encrypt the packet content at each session.

Additional Product Notes

1. 16 100/1000BASE-X mini-GBIC/SFP slots
2. 8 10/100/1000BASE-T RJ45 copper ports
3. RJ45 to RS232 DB9 console interface for basic management and setup
4. 36 to 60V DC, redundant power with polarity reverse protect function

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5. 0 to 60 degrees C operating temperature
6. 19-inch rack-mountable
7. Relay alarm for port breakdown, power failure
8. Two built-in thermal fans
9. Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
10. High performance of Store-and-Forward architecture, and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
11. Storm control support
 - Broadcast / Unicast / Unknown unicast
12. Supports VLAN
 - IEEE 802.1Q tagged VLAN- Up to 255 VLANs groups, out of 4095 VLAN IDs- Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)- Private VLAN Edge (PVE)- Protocol-based VLAN- MAC-based VLAN- IP subnet-based VLAN- Voice VLAN
13. Supports Spanning Tree Protocol
 - STP, IEEE 802.1D Spanning Tree Protocol- RSTP, IEEE 802.1w Rapid Spanning Tree Protocol- MSTP, IEEE 802.1s Multiple Spanning Tree Protocol, spanning tree by VLAN- BPDU Guard
14. Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)- Cisco ether-channel (static trunk)- Maximum 24 trunk groups, with 8 ports for each trunk- Up to 16Gbps bandwidth (full duplex mode)
15. Provides port mirror (many-to-1)
16. Port mirroring monitors the incoming or outgoing traffic on a particular port
17. Loop protection to avoid broadcast loops
18. Supports maximum 32 static routes and route summarization
19. Ingress shaper and egress rate limit per port bandwidth control
20. 8 priority queues on all switch ports
21. Traffic classification
 - IEEE 802.1p CoS- ToS / DSCP / IP Precedence of IPv4/IPv6 packets- IP TCP/UDP port number- Typical network application
22. Strict priority and Weighted Round Robin (WRR) CoS policies
23. Traffic-policing policies on the switch port
24. DSCP remarking

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25. Supports IGMP snooping v1, v2 and v3
26. Supports MLD snooping v1 and v2
27. Querier mode support
28. IGMP snooping port filtering
29. MLD snooping port filtering
30. MVR (Multicast VLAN Registration)
31. Authentication
 - IEEE 802.1x port-based / MAC-based network access authentication- IEEE 802.1x authentication with guest VLAN- Built-in RADIUS client to cooperate with the RADIUS servers- RADIUS / TACACS+ users access authentication
32. Access Control List
 - IP-based Access Control List (ACL)- MAC-based Access Control List (ACL)
33. Source MAC / IP address binding
34. DHCP Snooping to filter distrusted DHCP messages
35. Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
36. IP Source Guard prevents IP spoofing attacks
37. IP address access management to prevent unauthorized intruder
38. IPv4 and IPv6 dual stack management
39. Switch Management Interfaces<
 - Console / Telnet command line interface- Web switch management- SNMP v1, v2c, and v3 switch management- SSH / SSL secure access
40. IPv6 address / NTP management
41. Built-in Trivial File Transfer Protocol (TFTP) client
42. BOOTP and DHCP for IP address assignment
43. System Maintenance
 - Firmware upload / download via HTTP / TFTP- Reset button for system reboot or reset to factory default- Dual images
44. DHCP relay and option 82
45. User privilege levels control
46. NTP (Network Time Protocol)
47. Link Layer Discovery Protocol (LLDP) and LLDP-MED
48. Network diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)- Cable diagnostic technology provides the mechanism

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to detect and report potential cabling issues- ICMPv6 / ICMPv4 remote ping

49. SMTP / Syslog remote alarm
50. Four RMON groups (history, statistics, alarms and events)
51. SNMP trap for interface link up and link down notification
52. System Log
53. PLANET Smart Discovery Utility for deploy management
54. 100~240V AC / 36~60V DC dual power redundancy
55. Active-active redundant power failure protection
56. Backup of catastrophic power failure on one supply
57. Fault tolerance and resilience
58. 2 Digital Input (DI)
59. 2 Digital Output (DO)
60. Integrates sensors into auto alarm system
61. Transfers alarm to IP network via email and SNMP trap

Switch type	Switch layer	Basic switching RJ-45 Ethernet ports type	Basic switching RJ-45 Ethernet ports quantity	Console port	MAC address table	Switching capacity
Managed	L2+	Gigabit Ethernet (10/100/1000)	8	RS-232 Full duplex	16000 entries	48 Gbit/s

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