

# 8-P Gigabit + 2-TP/SFP(100/1G) combo L2+ Managed PoE+ Switch (130W), w/ Rack kits

## OVERVIEW

1418M-MG8002I-PSE 13-K is a 10-port Managed Gigabit PoE Switch which delivers 8 (10M/100M/1G) RJ45 ports, 2 Combo GbE RJ45/SFP ports and RJ45 Console port.

1418M-MG8002I-PSE 13-K offers full suite of comprehensive Layer 2 switching capabilities such as ACL, Spanning Tree, DHCP Relay, IGMP QoS functions... etc., and provides advanced L3 features like Static Route and IPv6 / IPv4 management functions. 1418M-MG8002I-PSE 13-K's 10/100/1000 Mbps ports are PoE-enabled, supporting 8 ports PoE+ with a total power budget of 130W. 1418M-MG8002I-PSE 13-K provides the ideal combination of affordability and capabilities for small- and medium-size businesses which demands IP Phone, IP Camera or Wireless applications, thus helps you create a more efficient, better-connected workforce.

1418M-MG8002I-PSE 13-K complies with 802.3az, the green feature enables the switch to automatically detect the length of connected Ethernet cables and adjust power usage accordingly. 1418M-MG8002I-PSE 13-K comes with a fanless design in a compact 8.7" desktop cabinet, also offering a 19" rack mounting brackets optional.

802.3  
at10/100  
1000MSFP4  
100/1G

Fanless

IPv6  
IPv4SSL  
SSHL3 Static  
RouteDHCP  
ServerSTP RSTP  
MSTP

## CHARACTERISTICS

- L2+ features provide better manageability, security, QoS, and performance.
- PoE Port configuration and scheduling, 802.3at high power PoE plus standard
- Built in Device Management System (DMS)
- DHCP Server
- IPv4/IPv6 L3 static route
- Support SSH/SSL secured management
- Support SNMP v1/v2c/v3
- Support RMON groups 1,2,3,9
- Support sFlow
- Support IGMP v1/v2/v3 Snooping
- Support MLD v1/v2 Snooping
- Support RADIUS and TACACS+ authentication
- Support IP Source Guard
- Support DHCP Relay (Option 82)
- Support DHCP Snooping
- Support ACL and QCL for traffic filtering
- Support 802.1d(STP), 802.1w(RSTP) and 802.1s(MSTP)
- Support LACP and static link aggregation
- Support Q-in-Q double tag VLAN
- Support GVRP dynamic VLAN
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet
- Fanless design

## ORDERING

### 1418M-MG8002I-PSE 13-K

8-P Gigabit + 2-TP/SFP(100/1G)  
combo L2+ Managed PoE+ Switch  
(130W), w/ Rack kits



## | SPECIFICATIONS

<b>Standards</b>	IEEE 802.3/3u 10Base-T, 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z 1000Base-X Ethernet IEEE 802.3x Flow Control capability IEEE802.3at/at PoE standard IEEE802.3az Energy Efficient Ethernet
<b>Interface</b>	Port 1 to 8: RJ-45 10/100/1000Mbps with 802.3at/at PoE, auto MDI/X Port 9 to 10: RJ45/SFP(100/1000Mbps) combo RJ45 Console port Reset Button
<b>Forwarding Capacity</b>	14.88 Mpps
<b>Switching Capacity</b>	20 Gbps
<b>Jumbo frames</b>	9216 Bytes
<b>MAC Table</b>	8K MAC addresses
<b>Layer 2 Switching</b>	
<b>Spanning Tree Protocol (STP)</b>	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
<b>Trunking</b>	Link Aggregation Control Protocol (LACP) IEEE 802.3ad Up to 5 groups Up to 2 ports per group
<b>VLAN</b>	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) Port-based VLAN 802.1Q tag-based VLAN MAC-based VLAN Management VLAN Private VLAN Edge (PVE) Q-in-Q (double tag) VLAN Voice VLAN GARP VLAN Registration Protocol (GVRP)
<b>DHCP Relay</b>	Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82
<b>IGMP v1/v2/v3 snooping</b>	IGMP limits bandwidth-intensive multicast traffic to only the requesters Supports 1024 multicast groups
<b>IGMP Querier</b>	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
<b>IGMP Proxy</b>	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
<b>MLD v1/v2 snooping</b>	Deliver IPv6 multicast packets only to the required receivers
<b>Layer 3 Switching</b>	
<b>IPv4 Static Routing</b>	IPv4 Unicast: Static routing
<b>IPv6 Static Routing</b>	IPv6 Unicast: Static routing
<b>Security</b>	
<b>Secure Shell (SSH)</b>	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
<b>Secure Sockets Layer (SSL)</b>	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
<b>IEEE 802.1X</b>	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN , single/multiple host mode and single/multiple sessions Supports IGMP-RADIUS based 802.1X Dynamic VLAN assignment
<b>Layer 2 Isolation Private VLAN Edge (PVE)</b>	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
<b>Port Security</b>	Locks MAC addresses to ports, and limits the number of learned MAC address
<b>IP Source Guard</b>	Prevents illegal IP address from accessing to specific port in the switch
<b>RADIUS/ TACACS+</b>	Supports RADIUS and TACACS+ authentication. Switch as a client
<b>Storm control</b>	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
<b>DHCP Snooping</b>	A feature acts as a firewall between untrusted hosts and trusted DHCP servers
<b>ACLs</b>	Supports up to 256 entries. Drop or rate limitation based on: Source and destination MAC, VLAN ID or IP address, protocol, port Differentiated services code point (DSCP) / IP precedence TCP/ UDP source and destination ports 802.1p priority Ethernet type Internet Control Message Protocol (ICMP) packets TCP flag
<b>Quality of Service</b>	
<b>Hardware Queue</b>	Support 8 hardware queues
<b>Scheduling</b>	Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service
<b>Classification</b>	Port based 802.1p VLAN priority based IPv4/IPv6 precedence / DSCP based Differentiated Services (DiffServ) Classification and re-marking ACLs

## SPECIFICATIONS

<b>Rate Limiting</b>	Ingress policer Egress shaping and rate control Per port
<b>Management</b>	
<b>DHCP Server</b>	Support DHCP server to assign IP to DHCP clients
<b>Remote Monitoring (RMON)</b>	Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
<b>Port mirroring</b>	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported
<b>UPnP</b>	The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
<b>s-Flow</b>	The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
<b>IEEE 802.1ab (LLDP)</b>	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network Support LLDP-MED extensions
<b>Web GUI Interface</b>	Built-in switch configuration utility for browser-based device configuration
<b>CLI</b>	For users to configure/manage switches in command line modes
<b>Dual Image</b>	Independent primary and secondary images for backup while upgrading
<b>SNMP</b>	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
<b>Firmware Upgrade</b>	Web browser upgrade (HTTP/ HTTPS) and TFTP Upgrade through console port as well
<b>NTP</b>	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
<b>Other Management</b>	HTTP/HTTPS; SSH DHCP Client/ DHCPv6 Client Cable Diagnostics Ping Syslog Telnet Client IPv6 Management
<b>Power over Ethernet (PoE)</b>	
<b>Port Configuration</b>	Supports per port PoE configuration function
<b>PoE Scheduling</b>	Supports per port PoE scheduling to turn on/off the PoE devices (PDs)
<b>Auto-checking</b>	Check the link status of PDs. Reboot PDs if there is no responses
<b>Power Delay</b>	The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs
<b>PoE Power Budget</b>	130 Watts
<b>Power Supply</b>	Internal Power supply 100-240VAC, 50/60 Hz
<b>Environment</b>	Operating temperature: 0°C to 45°C Storage Temperature: -20 to 70°C Operating Humidity: 10% to 90% (Non-Condensing)
<b>Dimension</b>	220 x 44 x 242mm (WxHxD)
<b>Certification</b>	FCC, CE

## APPLICATION

