

IES82162MH-S-RP

L2+ Hardened Grade Managed 16-port 100/1000Base-SFP + 8-port 10/100/1000 Base-TX + 4-port 1000Base-SFP or 1000Base-TX Combo Optical Ethernet Switch with Redundant AC Power Inputs



Features

- ▶ Layer 2 plus with 8x10/100/1000Base-TX + 16x100/1000Base-SFP + 4x1000Base-SFP or 1000Base-TX Combo
- ▶ Support Auto-MDIX, and Full/Half Duplex self-negotiation mode
- ▶ Support 10K bytes jumbo frame, compatible with various extension protocols
- ▶ Electric 8KV surge protection, easy to use in outdoor environment
- ▶ Support ERPS ring network protocol of ITU G.8032 standard, self-healing time less than 20ms
- PoE Port timing schedule for energy savings
- Intelligent power recycling for PDs
- Trap event alert via CLI/Web/SNMP management interfaces
- IEEE 802.1Q tagged 4K VLANs groups, out of 4094 VLAN IDs
- Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
- Redundant AC Power Inputs
- 19" 1U Rack-mount

Specifications

Standards	
IEEE 802.3	10Base-TX 10Mbit/s Ethernet
IEEE 802.3u	100Base-TX, 100Base-SFP, Fast Ethernet
IEEE 802.3ab	1000Base-TX Gbit/s Ethernet over twisted pair
IEEE 802.3z	1000Base-X Gbit/s Ethernet over Fiber-Optic
IEEE 802.3x	Flow control for Full Duplex
IEEE 802.3az	EEE (Energy Efficient Ethernet)
IEEE 802.3ah	EFM-OAM
IEEE 802.1Q	Virtual LANs (VLAN)
IEEE 802.1X	Port based and MAC based Network Access Control, Authentication
IEEE 802.1d	STP (Spanning Tree Protocol)
IEEE 802.1w	RSTP (Rapid Spanning Tree Protocol)
IEEE 802.1s	MSTP (Multiple Spanning Tree Protocol)
ITU-T G.8032 / Y.1344	ERPS (Ethernet Ring Protection Switching)
IEEE802.3ac	Max frame size extended to 1522Bytes
IEEE 802.3ad	Link aggregation for parallel links with LACP(Link Aggregation Control Protocol)
IEEE 802.1ad	Q-in-Q VLAN stacking
IEEE 802.1p	LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization
IEEE 802.1ab	Link Layer Discovery Protocol (LLDP)
Switching Property	
Packet Buffer	4Mbits
Jumbo Frame	10Kbytes
MAC Address Table	8K
Flow Control	IEEE 802.3x flow control for Full Duplex mode, Back pressure for Half Duplex mode
Data Processing	Store and Forward (Full/Half Duplex mode)
Switch Architecture	Delay time: < 7μs; Back-plane bandwidth: 128Gbps/non-blocking; Packet forwarding rate: 96Mpps
Network Interfaces	
RJ45 Port	10/100/1000Base-TX, support auto negotiation speed, auto MDI/MDI-X function Transmission Distance: 100m (using standard CAT5/CAT5e cable)



SFP Port	100/1000Base-SFP, support 100/1000M dual speed with DDMI Transmission Distance: depends on SFP Module
Console	RS-232 (RJ-45)

Power Supply

Redundant Power Input	AC220 redundant
Removable Terminal Block	Provide 2 redundant power, alarm relay contact (optional), 6 Pin
Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC
Overload Current Protection	Support
Reverse Polarity Protection	Support
Power Consumption	Full-load<24W

LED Indicator

Power	Connect-always
RJ45	Link/Act: connect-always; data exchange-twinkle
SFP	Link/Act: connect-always; data exchange-twinkle

Mechanical Specs

Material	IP40 aluminum housing
Cooling	Passive cooling, fan-less design
Dimension	440 x 300 x 45 mm
Installation	Rack
Weight	3Kg

Management Software

Redundant Network	Support STP/RSTP Support EAPS, ERPS (Recovery time<20ms)
Routing	Support Static Routing
Multicast Support	Support IGMP Snooping Support GMRP
VLAN	Support IEEE 802.1Q 4K VLAN Support Q-in-Q
Link Aggregation	Support Manual Aggregation Support Static/Dynamic LACP protocols
QOS	Support COS, DSCP, 8 queues Support WRR, SP, WFQ scheduling mode, policy QOS
Diagnostic Maintenance	Support Port Mirroring Support Syslog, Support Ping command, etc.
Management Mode	Support CLI, WEB, SNMP
Alarm Management	Support 1 way relay alarm output Support RMON management, TRAP alarm
Security	Support DHCP Snooping, Option 82 Support 802.1X security access Support user hierarchical management Support ACL access control list Support port-based MAC filtering / binding, MAC white-list
Port Management	Support port enabled and disabled Support port speed setting Support 802.3x flow control
L3 management	
Static routing	Support
Login IP	192.168.1.6
User Name/Password	admin/admin

Environmental

Operating Temperature	-40°C ~ 75°C (-40°F to 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F to 185°F)
Relative Humidity	5%~90% non-condensing

Managed Network Switches



Available Model	Description
IES82162MH-S-RP	L2+ Hardened Grade Managed 16-port 100/1000Base-SFP + 8-port 10/100/1000Base-TX + 4-port 1000Base-SFP or 1000Base-TX Combo Optical Ethernet Switch with Redundant AC Power Inputs

Optional Accessories (to be purchased separately)

SFP (S)=SFP Option. Please select your SFP on our SFP Modules page for details.

Package Checklist

■ Managed Switch	x 1
■ DB9 female to RJ45 10 pin	x 1
■ Rack Mount Kits	x 2
■ Quick Installation Guide	x 1

Managed Network Switches

