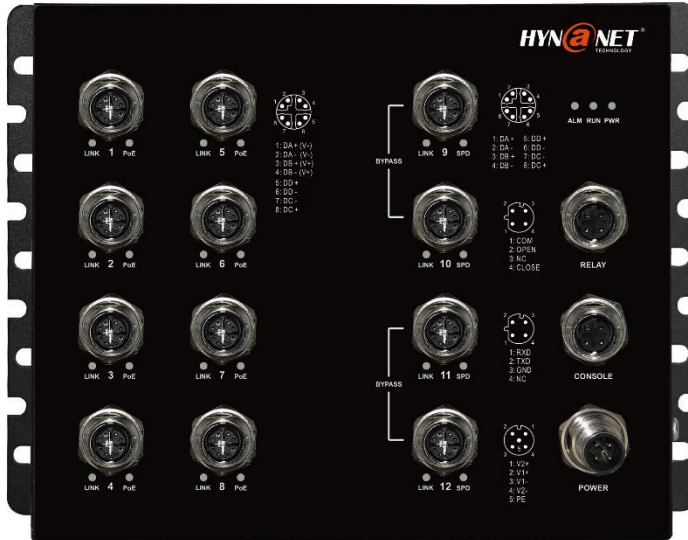


IS3008G4BP-8P-M12-DC

EN50155 L3 Managed Industrial PoE Switch



Description

The IS3008G4BP-8P-M12-DC is a high performance L2/L3 Managed Industrial Ethernet Switch with 12x10/100/1000M M12 Copper Ports, which meets the high reliability requirements demanded by industrial rolling stock applications. It provides L2/L3 wire speed and advanced security function for network aggregation deployment. It delivers enhanced ring recovery less than 20ms in single ring. And passive bypass function guarantees that networks remain functional even at multiple points of failure.

The IS3008G4BP-8P-M12-DC is designed to meet which critical network environment with IP40 aluminum enclosure and M12 connectors for water proof. It is best for railway in train/track side, vehicle and mining applications. For more usage flexibilities, It supports wide operating temperature from -40~75 °C.

Features

- Conforms to IEEE802.3, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE802.3af, IEEE802.3at
- Provide 12x10/100/1000M Copper ports with M12 X-code connector
- 8x10/100/1000M ports support PoE function
- 4x10/100/1000M ports support 2 pairs of Bypass function
- High back-plane bandwidth 24Gbps
- Supports RSTP, EAPS, ERPS ring network redundancy protocols
- Supports Layer 3 routing protocols such as static Routing, OSPF, RIP, VRRP and BGP
- Support command line interface management
- Management by Http/Https/Telnet/ SSH/ SNMP/Console
- Complies with the requirements of EN50155 Industrial standards

- Wide power input: 44~57VDC
- Wide working temperature: -40~75℃
- IP40 protection class

Specifications

Attributes	
Networking Interfaces	12 10/100/1000Mbps Copper ports support PoE function (M12 X-code) 4 10/100/1000Mbps Copper ports support 2 pairs of Bypass function (M12 X-code)
Management Interface	Console (M12 D-code)
Power Interface	Redundant power inputs (M12 A-code)
LED Indicators	Power, Link/Act, PoE
Performance	
Switching Capacity	24 Gbps
Forwarding Capacity	17.9 Mpps
Forwarding Mode	Store and Forward
Packet Buffer Memory	12 Mbit
RAM for CPU	2 Gbit
Flash Memory	512 Mbit
MAC Address Table	16K
Max. Jumbo Frame size	16K
ACL Table	512
VLAN Quantity	4K
VLAN Interface	512
Multicast groups	1K
Routing Host	512 IPv4 or 256 IPv6
Routing Entries	64
Port Queues	8
Physical	
Dimensions	205x147x56mm
Weight	
Operating Temperature	-40 to 75℃
Storage Temperature	-40 to 75℃
Operating Humidity	5 to 95% Noncondensing
Power Method	48VDC
Max. Power Consumption	15W (without PoE load)
EMC Safety	FCC, CE, RoHS
Reliability	Supports bypass power failure bypass function (Gigabit port only)
Power over Ethernet	
PoE Interfaces	Ports 1-8
PoE Standard	IEEE802.3af, IEEE802.3at
Max. PoE Wattage per Port	30W
PoE Voltage	48VDC (Depend on Power input)
PoE Pin Assignment	V- (M12 Pin1,2), V+ (M12 Pin 3,4)
Port Configuration	
Enable and Disable	Support control enable and disable
Auto-Negotiation	Support force port mode and speed

Flow Control	Support IEEE802.3x full-duplex Support half-duplex backpressure
Storm Control	Support broadcast, multicast and DLF package rate limit
Port Mirroring	Support many to one mirroring
Rate Limit	Support Port input and output rate limit
Link Aggregation	Support manual Link Aggregation Support LACP Up to 8 maximum aggregation groups, each containing up to 8 ports
Aggregation Strategy	Source MAC / Destination MAC / Source Destination MAC Source IP / Destination IP / Source Destination IP
Port Protection	Each port can be configured into isolated protected port from each other
MAC Configuration	
MAC Address Table Management	Support
Transfer Mode	Support IVL transfer mode
Static MAC Address	Support
MAC Binding	Support
MAC Address Filter	Support
MAC Quantity Limitation	Support limit the number of MAC-addresses Learning per port
VLAN Configuration	
VLAN Based on 802.1Q	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Guest VLAN	Support
Private VLAN	Support
Reliability Protocol	
Spanning Tree	Support STP/RSTP/MSTP
BPDU Guard	Support
BPDU Filter	Support
Port Loop Detection	Support
EAPS Protocol	Support RFC3619
LLDP Protocol	Support LLDP and LLDP-MED
UDLD Protocol	Totally compatible with UDLD protocol of CISCO
L3 Routing	
Static ARP & Dynamic ARP	Support
Static Routing	Support
Policy Routing	Support
RIP	Support RIP v1/v2
OSPF	Support OSPF v2
VRRP	Support
Multicast	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support
IGMP Querier	Support
IGMP Filter	Support
MVR	Support
GMRP	Support
Access Control List (ACL)	

Based on Standard IP	Support
Based on Extend IP	Support
Based on MAC IP	Support
Based on MAC ARP	Support
Based on time	Support
Port Filtering	Support
Quality of Service (QOS)	
Scheduling Mode	Support WRR, SP, WFQ
Sorting Based on Port	Support
Sorting Based on 802.1p	Support
Sorting Based on DSCP(DiffServ)	Support
DHCP	
DHCP Client	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
DHCP Snooping	Support
Security	
Administrative Security	Support start and end TELNET, WEB and SNMP serve Support TELNET, WEB and SNMP serve binding with Standard IP ACL Support control the number of user for TELNET
CPU Protect	Switch self-security protect, forbid flow attack
IP-MAC Address Binding	Support binding between static configuration IP, MAC and Port
AAA	Support 802.1x protocol Support RADIUS protocol Support RADIUS server authentication authorization and bill Support MAC-based 802.1X authentication. Support 802.1x guest VLAN
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC port binding Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever
Prevent ARP Spoofing	Support manual configure ACL rule based on MAC ARP prevent ARP spoofing Support DHCP SNOOPING function, switch dynamically binding ARP and port, when the DHCP get IP address , to prevent ARP spoofing
Management Feature	
CLI Management	Support serial port management Support TELNET management Support SSH management
WEB Management	Support
SNMP Management	Support SNMP protocol Support SNMP TRAP Support standard and private MIB
User management	Support multi-user management
Show CPU Utilization	Support
Show RAM Utilization	Support
Log Management	Support
Configuration Download / Upload	Support
Upgrade Firmware	Support
Timer Management	Support local timer management

	Support SNTP protocol get clock
Debugging Tools	
PING	Support
TRACEROUTE	Support
TELNET Client	Support
Package List	
Switch	1pcs
User Manual	1pcs
DB9 to M12 Cable	1pcs

Order Information

Switch Models	
IS3008G4BP-8P-M12-DC48	12GE EN50155 L3 PoE Switch with Bypass function
Cable	
M12-P-5-A-IP67-1	M12-to-Power cable, 5-pin A-coded IP67, 1 m
M12-R-8-X-IP67-1	M12-to-RJ45 cable, 8-pin X-coded IP67, 1 m
M12-M-8-X-IP67-1	M12-to-M12 cable, 8-pin X-coded, IP67, 1 m
M12-C-5-D-IP67-1	M12-to-DB9 cable, 5-pin (7 pos with 5pin) D-coded IP67, 1 m
M12 Connector Caps	
M12-CAP-F-P	Plastic cap for M12 female connector
M12-CAP-M-P	Plastic cap for M12 male connector
M12 Connector	
M12-CON-5-A-IP67-M	DIY Metal connector for M12 5-pin A-coded
M12-CON-4-D-IP67-M	DIY Metal connector for M12 4-pin D-coded
M12-CON-8-X-IP67-M	DIY Metal connector for M12 8-pin X-coded