JHA-MIWS4G016H Series

20-port Managed Industrial Ethernet Switch, with 4 1G/10G SFP+ Slot and 16 10/100/1000Base-T(X) Ethernet Port

Features

■Support 4 1G/10G SFP+ Slot and 16 10/100/1000Base-T(X) Ethernet port(POE optional).

■Support G.8032(ERPS), IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3x, IEEE802.3ad, IEEE802.3ab, IEEE802.1p, IEEE802.1x, IEEE802.1Q, IGMP Snooping, IPv4/IPv6 precedence.

■Support CLI, SNMP, WEB management, Console/Telnet command-line management and syslog, using self-developed ring network technology, recovery time <20ms.

■DC10-55V redundancy power, reverse polarity protection.

■Industrial grade 4 design, -40-85°C operating temperature.

■IP40 rated aluminum alloy housing, DIN-Rail mounted.

Introduction

JHA-MIWS4G016H is a high performance, cost-effective high-end managed industrial Ethernet switch. The switch provides 16 10/100/1000Base-T(X) Ethernet port and 4 1G/10G SFP+ Slot. In full compliance with industrial product design and materials, the shell is made of aluminum alloy to enhance heat dissipation performance. Through fanless heat dissipation circuit design, wide range of working environment temperature, high protection level and other technologies, it provides high/low temperature resistance, lightning protection and other excellent industrial grade Quality; support WEB management, VLAN, QoS, SNMP, IGMP snooping and other network functions; support Ethernet fast ring network protection previous STP/RSTP/MSTP spanning tree ring network; industrial-grade three-level ESD protection is suitable for many occasions , such as intelligent transportation, outdoor monitoring, industrial network, safe city and other harsh environment

deployments require that the product also adopts fanless, low power consumption, industrial-grade design, and the operating temperature range of -40 to 85°C, which can meet various industrial On-site requirements, providing economical solutions. The device can be widely used in various broadband data transmission fields such as smart buildings, smart cities, smart communities, smart transportation, telecommunications, security, financial securities, customs, shipping, electric power, water conservancy and oil fields.

Detail Features

- Support STP/RSTP/MSTP production tree protocol, eliminate layer 2 loop and realize link backup.
- Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, support Voice VLAN, and support QinQ configuration.
- Support IGMP V1/V2 multicast protocol, support IGMP Snooping, meet multi-terminal high-definition video.
- Frequency monitoring and video conferencing access requirements.
- Support port isolation.
- Support port broadcast storm suppression.
- Support various management and maintenance methods such as Web network management, CLI command line (Console, Telnet), SNMP (V1/V2/V3) Telnet, etc.
- Support HTTPS, SSLV3, SSHV1/V2 and other encryption methods, making management more secure.
- Support RMON, system log, and port traffic statistics, which is convenient for network optimization and transformation.
- Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.
- Support CPU monitoring, memory monitoring, Ping detection, cable length detection.
- Users can easily understand the working status of the device through the power indicator (PWR), system operation indicator (SYS), port status indicator (Link, L/A).
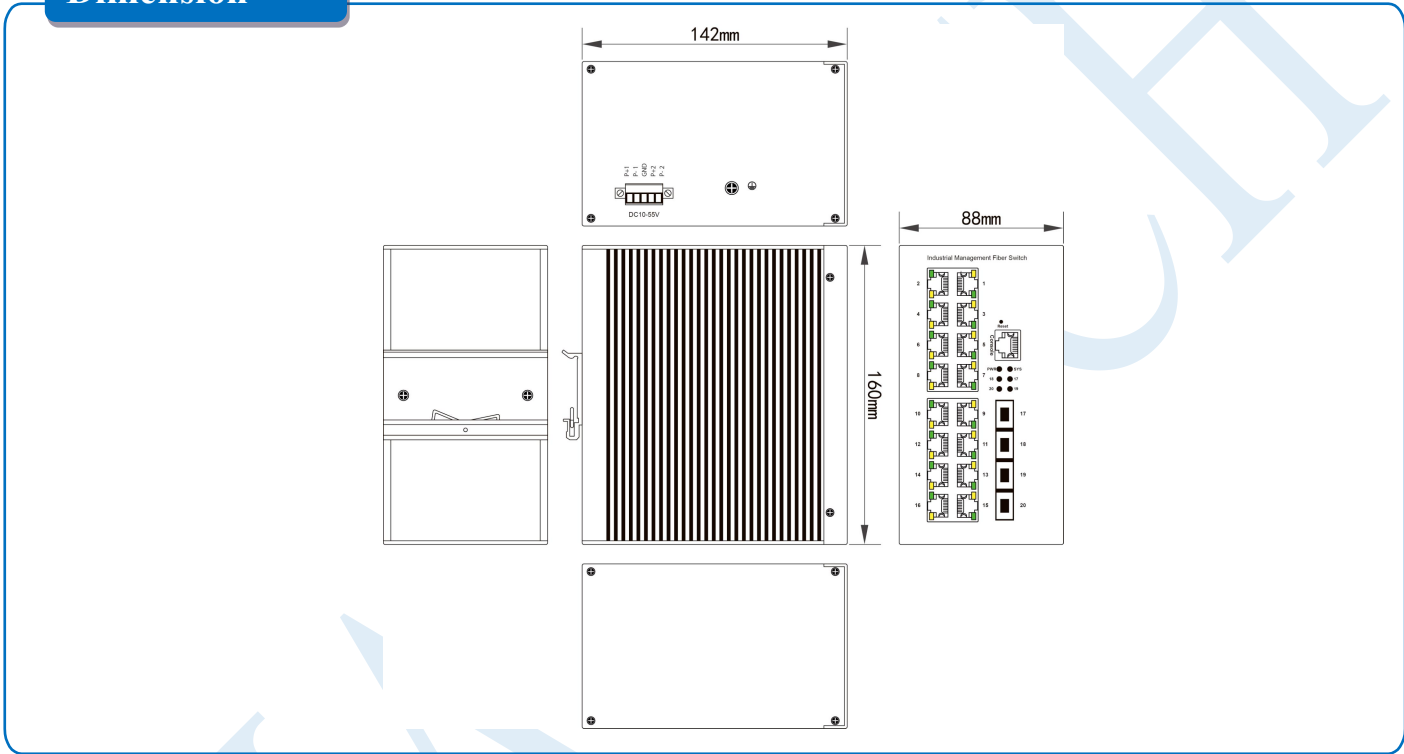
Specification

Interface	
Fiber Port	4*1G/10G SFP+ Slot
Ethernet Port	16*10/100/1000 Base－T
Manage Port	1*RJ45 Console port
Power connector	5P Phoenix terminal, dual power supply redundancy
LED Indicator	PWR (green); System indicator:SYS(green); Network port indicator:Yellow(Link)/Green (Speed)/Green(Fiber L/A)
Cable type and distance	
Twisted pair cable	0-100m (CAT5e, CAT6)
Single-mode fiber	20/40/60/80/100KM
Multimode fiber	550m/2KM
Optical fiber interface	LC/SC
Network topology & scale	
Ring topology	Support
Star topology	Support
Bus topology	Support
Tree topology	Support
Hybrid topology	Support
Electrical characteristics	
Input voltage	DC10-55V/AC 100-240V 50-60HZ DC48-58V(POE type)
Power consumption	Non-POE full load (Total power) <20W POE type:IEEE802.3af max 15.4w, IEEE802.3at max 30w.
L2 Features	
Exchange capacity	96G
Packet forwarding rate	64.23Mpps
MAC address table	16K
VLAN support and quantity	Support 4K
Report buffer	12M
Forwarding delay	<10us
Port characteristics	Cross-connect and direct-adaptive
Flow control	Support
Jumbo frame support	Support 10Kbytes
Spanning Tree Protocol	Support STP/RSTP/MSTP
Ring network protocol	Support ERPS
Link aggregation	Support 16 groups

Multicast	Support IGMP Snooping

Port mirroring	Support
Storm suppression	Support
Port traffic statistics	Support
Port flow system	Support
QINQ	Support
Protection	Shell: IP40 protection, aluminum alloy housing IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us) IEC 61000-4-5 Level 3 (6KV/2KV) (10/700us) IEC 61000-4-3 Level 3 (10V/m) IEC 61000-4-4 Level 3 (1V/2V) IEC 61000-4-6 Level 3 (10V/m) IEC 61000-4-8 Level4 (30A/m) IEC 61000-4-11 Level3 (10V) EMI CLASS A IEC 61000-4-2 Level 4 (15KV/30KV) Free fall 0.5m
Convergence Service	
ACL	Support 500 ACLs; Support IP standard ACL; Support MAC extended ACL; Support IP extended ACL;
QoS	Support QoS re-marking and priority mapping; Support SP, WRR queue scheduling; Support entry speed limit and exit speed limit; Support flow-based QoS
Management function	
Command line	Support
Management serial port	Support
Telnet	Support
WEB management	Support
SNMP	Support SNMPv1/v2c
User management	Support
System log	Support
File upgrade	Support
Firmware upgrade	Support
SFP module DDM	Support
Environmental conditions	
Working temperature	-40℃~+85℃
Storage/transport temperature	-40℃~+85℃
Relative humidity	5%~95% does not support condensation (non-condensing)
Cooling method	No fan design, natural heat dissipation

MTBF	100,000 hours

Mechanical structure	
Size	142X160X88mm
Installation method	DIN Rail Installation
Weight	1.5KG

Dimension

Order Information

Model No.	Description of Goods
JHA-MIWS4G016H	Managed Industrial Ethernet Switch, 4 1G/10G SFP+ Slot and 16 10/100/1000Base-T(X), DIN-Rail, DC10-55V, -40-85°C Operating Temperature
JHA-MIWS4G016H P	Managed Industrial PoE Switch, 4 1G/10G SFP+ Slot and 16 10/100/1000Base-T(X) PoE/PoE+, DIN-Rail, DC48-58V, -40-85°C Operating Temperature
Power Supply: DC24V DIN-Rail Power Supply or Power Adapter is Optional. DC48V DIN-Rail Power Supply or Power Adapter is Optional.	