

IGS-M164 Industrial Managed Gigabit Switch

LCSI



20-Port: 16 x 10/100/1000T + 4 x 1000M SFP

Features

■ System Interface/Performance

- 16 x 10/100/1000Base-T RJ-45 port support Auto MDI/MDI-X Function with
- 4 x 1000M SFP Slots
- Store-and-Forward Switching Architecture
- 12Mbits Packet Buffer
- 16K MAC Address Table
- 16K Jumbo Frame
- Priority Queues : 8
- VLAN Table Size : 4094
- IGMP Group : 1023

■ Features

- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2, up to 1023 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Support industrial automation protocol Modbus TCP

Standard

IEEE Standard	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseX IEEE 802.3x Flow Control IEEE 802.3ad LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid STP IEEE 802.1s Multiple STP ITU-T G.8032 / Y.1344 ERPS IEEE 802.1Q VLAN Tagging IEEE 802.1ad Stacked VLANs IEEE 802.1p Class of Service IEEE 802.1X Network Authentication IEEE 802.1AB LLDP
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Software Features

Network Redundancy	RSTP, MSTP, G.8032 ERPS, Port Trunking with LACP
Security Features	802.1X, RADIUS, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, uPnP, SNMP v1/v2c/v3
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2, IGMP Querier, Independent Vlan Learning
Time Sync.	NTP
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
PoE	N/A
Industrial Profiles	Modbus TCP

Interface

RJ45 Ports	16 x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
SFP/Fixed Fiber Port	4 x 1000M SFP Slot
LED Indicators	Per unit: PWR1, PWR2, Fault, Ring Master, Ring State Ports: Link/Active with highest speed(Green), low speed(Amber)
Alarm Contact Button	1x relay output with current carrying capacity of 1A @ 24 VDC Multiple functions reset button
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

Power

Input Voltage	12-48VDC, redundant dual inputs
Power Connection	1x removable 4-contact terminal block
Power Consumption	23 Watts
Protection	Overload Current Protected, Reverse Polarity Protected

Mechanical

Housing	Aluminum, IP30 protection
Protection Class	IP30
Dimensions	93x145x118 mm (WxHxD)
Weight	1.25 kg
Mounting	DIN-Rail Mounting, Optional Wall Mounting Kits

Protection

Overload Current Protection	Present
Power Reverse Polarity Protection	Present

Environment

Operating Temperature	-10°C to 60°C and -40°C to 75°C models
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory

EMI	FCC Part 15 Subpart B Class A CE EN 55022 Class A
EMS	IEC61000-4-2 (ESD Level 4), IEC61000-4-3 (RS Level 3), IEC61000-4-4 (EFT Level 4) IEC61000-4-5 (Surge Level 4), IEC61000-4-6 (CS Level 3), IEC61000-4-8 (Magnetic Field Level 4)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
MTBF	>100,000 hours

Order Information

Product Name	Description
IGS-M164	Industrial Managed Gigabit Ethernet Switch - 20 ports: 16*10/100/1000T + 4* 1000M SFP (-10°C~60°C)
IGS-M164E	Industrial Managed Gigabit Ethernet Switch - 20 ports: 16*10/100/1000T + 4* 1000M SFP (-40°C~75°C)

Note: In a continuing effort of improvement and update, product specifications are subject to change without prior notice.

Dimension (Unit = mm)

