

# IGSP-M084 Industrial Managed Gigabit POE Switch



12-Port: 8 x 10/100/1000T 802.3at POE + 4 x 1000M SFP (available with 48~57 VDC (Standard) and 12~57 VDC (Booster model))

## System Interface/Performance

- 8 x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
- 4 x 1000M SFP Slots
- Store-and-Forward Switching Architecture
- Priority Queues : 8
- 12Mbits Packet Buffer
- 16K MAC Address Table
- 16KB Jumbo Frame
- Priority Queues : 8
- VLAN Table Size : 4094
- IGMP Group : 1023
- Switching Capacity: 24Gbps
- Forwarding Rate: 17.8Mbps

## 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
- 1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and system log
- Support industrial automation protocol Modbus TCP
- Support PoE PD Alive Check for PoE Device Power Recycle

## Standard

IEEE Standard	IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseX IEEE 802.3x Flow Control IEEE 802.3ad/802.1AX LACP IEEE 802.3af Power over Ethernet IEEE 802.3at PoE+ 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	IEEE 802.1D (STP), IEEE 802.1w (RSTP), IEEE 802.1s (MSTP), G.8032 ERPSv2, Port Trunking with IEEE 802.3ad LACP
Security Features	802.1X, RADIUS, TACACS+, SSL, SSH V2
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
Filter	802.1Q VLAN(4K VLAN Group), Q-in-Q, IGMP Snooping v1/v2/v3(1023 IGMP groups), IGMP Querier Immediate Leave, IGMP Static Multicast Addresses, Storm Control
Time Sync.	NTP
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Industrial Profiles	Ethernet/IP, Modbus TCP

## Interface

RJ45 Ports	8 x 10/100/1000T(x) with PoE+, 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) PoE: Output Power
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	Standard Model: 48-57VDC, redundant dual inputs Booster Model: 12-57VDC , redundant dual inputs
Power Connection	1x removable 4-contact terminal block
Power Consumption	18.24 W without PDs' consumption (0.38A@48VDC)
PoE Power Budget	Max. 240 W for total PD consumption, Max. 30 W per PoE port
PoE Mode	Mode A (1, 2+ & 3, 6-)
Protection	Overload Current Protected, Reverse Polarity Protected

## Mechanical

Housing	Aluminum, IP30 protection
Protection Class	IP30
Dimensions	75x145x118 mm (WxHxD)
Weight	0.75 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
IGSP-M084	Industrial Managed Gigabit Ethernet Switch - 12 ports: 8*10/100/1000T 802.3at POE + 4*1000M SFP (-10°C~60°C) 48-57VDC
IGSP-M084E	Industrial Managed Gigabit Ethernet Switch - 12 ports: 8*10/100/1000T 802.3at POE + 4*1000M SFP (-40°C~75°C) 48-57VDC

Product Name	Description
IGSP-M084-B	Industrial Managed Gigabit Ethernet Switch - 12 ports: 8*10/100/1000T 802.3at POE + 4*1000M SFP (-10°C~60°C) 12-57VDC Voltage Booster Model: 12~57VDC
IGSP-M084E-B	Industrial Managed Gigabit Ethernet Switch - 12 ports: 8*10/100/1000T 802.3at POE + 4*1000M SFP (-40°C~75°C) 12-57VDC Voltage Booster Model: 12~57VDC

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

Dimension (Unit = mm)

