

IS-RG636P-M12 Series

36 Port M12 PoE+ Industrial Gigabit Ethernet Switch



Key features

- ▶ 36x 10/100/1000T(x) M12 X-coded connector include 8x IEEE 802.3at PoE+
- ▶ Built for harsh environments and wide temperature range application
- ▶ RSTP, MSTP, ERPS, LACP for Network Redundancy
- ▶ QoS CoS/DSCP to increase determinism
- ▶ Supports IGMP Snooping v1/v2/v3, up to 512 groups
- ▶ DHCP Relay Option 82 for policies IP address assignment
- ▶ SNMP v1/v2c/v3 for network management
- ▶ Supports Storm Protection

Specification

Technology

Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3az Energy-Efficient Ethernet 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 IEEE 1588 PTP
Processing Type	Store and Forward

Switch Properties

Switch Fabric	72Gbps	Priority Queues	8 Queues
Jumbo Frame	9216bytes	ACL Group	1024
MAC Table Size	32K		
VLAN Table Size	4094		
IGMP Group	512		
Packet Buffer	32Mbits		

Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security	802.1X, RADIUS, TACACS+, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP, RSPAN
Configuration	DHCP Server/Client, Relay Option 82, TFTP

Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check

Interface

M12 Port	36x 10/100/1000T(x) M12 Female X-coded 8-pole include 24x PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X
LED Indicators	Per unit: PWR1, PWR2 Ports: Link/Active (Green) Link / Active with PoE (Red)
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A
Serial Console	1x RS232 in M12 Male A-Coded connector, 115.2Kbps, 8N1

Power Requirements

Operation Voltage	110VDC single input
Connection	M12 Male S-coded 4-pole
Power Consumption	0.35@100VDC
PoE Power Budget	Max. 110W@110VDC with derating (50°C to 70°C, 2.5%/°C), for total PD consumption, Max. 30 W per PoE port
Protection	Overload Current Protected, Reverse Polarity Protected

Mechanical Construction

Enclosure	Aluminum / Steel metal
Protection Class	IP40
Dimensions	440x88x352 mm (WxHxD)
Weight	7.3 kg
Mounting	Rack Mounting

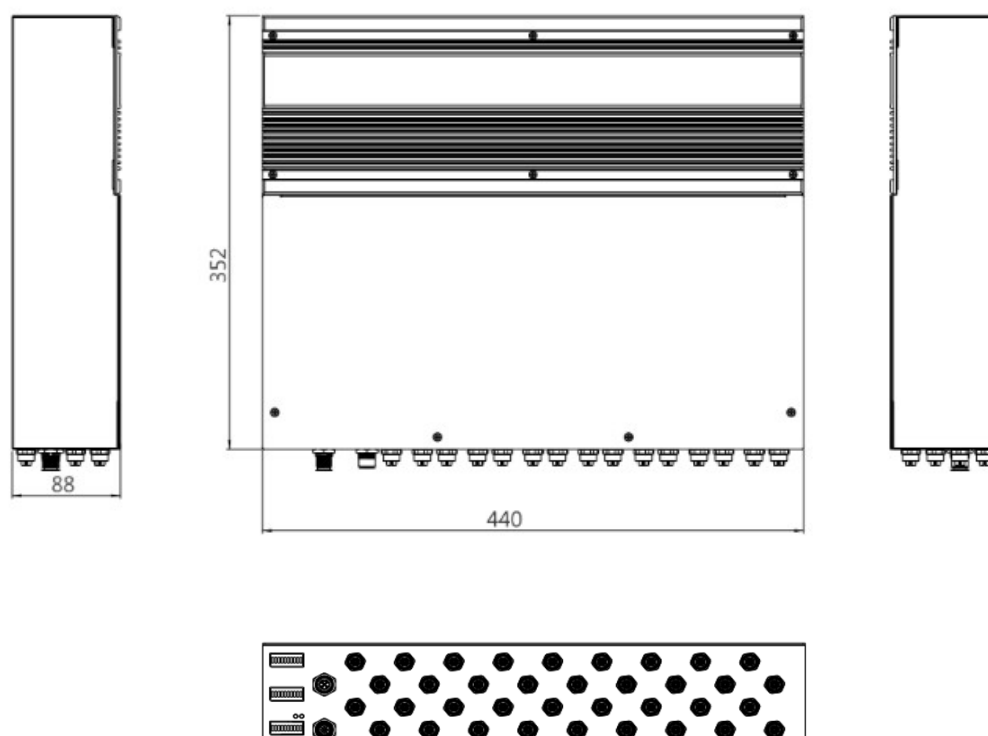
Environmental Limits

Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	EN 50155 (Optional) EN 45545-2
MTBF	>100,000 hours
Warranty	5 Years

Dimensions (unit = mm)



Ordering Information

Available Models	Description
IS-RG636P-M12	36 Port M12 PoE+ Industrial Gigabit Ethernet Switch - 30x 10/100/1000T(x) include 24x PoE+ M12 connector - Power Input: 110VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F)