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4 Port Industrial Giga PoE Managed Switch, Model IPSMG 302-2S



IPSMG 302-2S A Industrial Managed Switch is fully Managed L2 switches, with Store and Forward architecture, Fan-less and energy-saving design, with 2 * 10/100/1000Base-T Copper port and 2 * 1.25G/155M SFP Fiber port.

IPSMG 302-2S A is designed with protection against Lightning, anti-static and operate in -40°C to 75°C for harsh environments such as Industrial automation, Security, Power system, Intelligent transportation systems (ITS), Mining, Water Management & Oil fields.

Hardware Features

- ✓ SFP 100/1000Base-X
- ✓ ERPS (G.8032)
- ✓ Loop Protection
- ✓ Redundant dual DC input power 12/24/48VDC (12 to 58V DC)
- ✓ Reverse Polarity, Overload Current protect function
- ✓ 2.25K VDC Hi-pot isolation protection for Ethernet and Power Ports
- ✓ 4KV surge protection for Ethernet and Fiber ports
- ✓ Supports EFT protection 4000VDC for Power port
- ✓ Supports 8 / 15KV ESD protection
- ✓ IP40 Aluminum metal case
- ✓ DIN-rail mounting, Wall Mount kits optional
- ✓ -40°C to 75°C Operating temperature

Hardware Specifications

Standards	IEEE802.3 10BASE-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-XIEEE802.3x, IEEE802.1Q VLAN, IEEE802.1w RSTP, IEEE802.1s MSTP, IEEE802.1d STP, IEEE802.1ag
Protocols	TCP, UDP, ARP, ICMP, ICMP Router Discovery
Mode	Store and Forward / Cut through or fragment free switching
Switching Capacity	8Gbps Non-blocking
MAC Address Table	8K
Data Buffer	1M
Maximum Frame Size	9.6K Jumbo Frame
Flash Memory	32M
Switch Latency	7μsec
Copper	2*10/100/1000Base-T, RJ45, Auto Negotiation, Auto MDI/MDI-X, IEEE802.3-af & IEEE802.3-at ESD and EFT protection
Fiber	2*100/1000Base-X SFP Slot TX Power & RX Sensitivity based on SFP Modules
Console	RS232 (RJ45)
Reset Switch	Yes

Power	12V to 58V DC 4-PIN Removable Terminal Block
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Power Protection	Overload Voltage protection Overload Current protection 4KV Lightning protection 8 / 15KV ESD protection
PoE Details	Total Power Wattage : 60W for 802.3-at

LED Indicators	PWR, RUN, Link/Act, Speed, Fiber Link
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Operating Temp	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	5 - 95% (no condensation)

Enclosure	IP40 Protection, Aluminum Alloy, Fan less
Installatoin	DIN Rail. Wall mounting(with optional kit)
Dimensions	120*95*40mm
Weight	500g

Software Features

L2 Features	
Port Features	IEEE 802.3x Flow control
	Interface counters
	Broadcast Storm control
	Port Isolation
	Flow Mirroring
Link Aggregation	Static aggregation
	Dynamic aggregation, LACP
Mirror	Port-based mirroring
Spanning Tree	IEEE802.1d STP
	IEEE802.1w RSTP
	IEEE802.1s MSTP
VLAN	Port-based VLAN
	Static MAC Address
	Dynamic MAC Address
	Filtering MAC Address, SVL Mode
ERPS (G.8032)	Single Ring, Sub-Ring
	Recovery Time < 50ms
Layer 2 Multicast	IGMP Snooping V1/V2/V3
	Static Multicast Entry
	IGMP Fast Leave
BPDU Filtering	Per Port
Host ARP table	Yes

Security	
QoS	QoS Class, Remarking
	SP, WRR queue scheduling
	Ingress Port based Rate-limit
	Egress Port based Rate limit

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Dot1x	Port Access Control
	MAC Address Access Control
	RADIUS Server
Additional Features	IP Binding per Port, Port trunking Static IEEE 802.1p QoS / CoS / ToS / DSCP priority queuing Port Mirroring, Auto sensing, Dynamic ARP Inspection ARP Snooping / Spoofing prevention, Loopback detection / STP Loopback detection, Priority Mapping, DiffServ Marking BootDoS attack prevention, DHCP Server Screening, Head of Line(HoL), BootP, Digital Diagnostic Monitoring Interface (DDMI) support IEEE 802.1x Port Access Authentication, User authentication for Web GUI, Ingress policing, Auto QoS
Access Control list (ACL)	Port based, VLAN based, Bidirectional ACL

Management	
User management	Password protection
SNMP	SNMP V1/v2C (MIB)
SNTP	Yes
	System configure, Restore and Backup

RMON	Statistics Group
	History Group
	Alarm Group
	Events Group

Web management	WebUI with HTTP V1.1, HTTPS
Other	SmartPort, Syslog, DHCP Server
Firmware Upgrade	Revision Upgrade
Syslog/Debug	Support
IPV4	Yes
Diagnosis	Ping (IPv4)
	Trace route (IPv4)

Application	
NTP	NTP Client
Telnet	Telnet Server
TFTP	TFTP Client

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Approvals & Standards Tested for

Electro Magnetic Interference EMISSIONS : EN55032 : 2015

- | | | |
|---|------------------------|---|
| 1 | EN55022 / 55032 : 2015 | Conducted Disturbance, Radiated Disturbance |
| 2 | IEC 61000-3-2 : 2014 | Harmonic Current Emissions |
| 3 | IEC 61000-3-3 : 2013 | Voltage Fluctuation & Flicker |

Electro Magnetic Immunity / Susceptibility : EN55024 / EN55035 : 2017

- | | | |
|---|----------------------|--|
| 1 | IEC 61000-4-2 : 2009 | Electrostatic Discharge |
| 2 | IEC 61000-4-3 | RF Immunity |
| | | Continuous Radiated Disturbance |
| 3 | IEC 61000-4-4 | Electrical Fast Transient |
| 4 | IEC 61000-4-5 | Surge Immunity |
| 5 | IEC 61000-4-6 | Conducted RF immunity |
| | | Continuous Conducted Disturbance |
| 6 | IEC 61000-4-8 | Power Frequency Magnetic Field |
| 8 | IEC 61000-4-11 | AC Voltage Dips & Interruption/Variation |

SAFETY : EN 62368 / EN 60950

FCC : FCC 47 CFR Part 15B 15.107(a), 15.109(a)

Order Information : IPSMG 302-2S A

IPSMG	: Industrial Grade, Managed, Giga Switch
302	: 2 of 10/100/1000 PoE Copper Port
2S	: 2 of 100/1000 SFP Ports
A	: Fixed

Note : SFP to be purchased separately
: Power Supply for PD's to be purchased separately

NOTE :

- It is advisable that you use PoE Surge protectors on each port of the Switch.
- The PoE Surge protector has to be installed within 10m distance of the ports.
- It is mandatory that the Switch along with the PoE Surge protectors are very securely earthed.
- Failing which the Switch/Switch ports are likely to be damaged