

IPS-G2404SM-8C

24x GbE RJ45 with 8x Combo (RJ45/SFP) + 4x 100/1000Base-X SFP

NEW



- Supports, ERPS, MSTP, RSTP, STP for redundant cabling
- IEC61850-3, IEEE1613, EN62368-1, CE, FCC certified
- Wide Operating Temperature -40~85°C
- Supports IEEE1588 PTP v2



IEC 61850-3 defines general requirements for the construction, design and environmental conditions of utility communications and intelligent electronic equipment in the power plant and substation environment. IPS-G2404SM-8C is an IEC61850 and IEEE1613 certified 28-port full Gigabit Ethernet switch and comes with 8 combo-ports that provide flexible port usage of up to 24 RJ45 copper interfaces or up to 16 SFP slots for fiber optic module connections. It is an ideal solution for substation Ethernet communication deployments.

Features

- Redundant isolated High voltage 110/220VAC/DC (90~264VAC or 88~370VDC) power inputs
- STP, RSTP, MSTP, ITU-T G.8032 Ethernet Ring Protection Switching (ERPS) for network redundancy
- Supports SmartView™ for Centralized Management*

*Please see Chapter 1- **Software Management** for more details

Specifications

Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair
	IEEE 802.3z	1000Base-X Gbit/s Ethernet over Fiber-Optic
	IEEE 802.1d	STP (Spanning Tree Protocol)
	IEEE 802.1w	RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.1s	MSTP (Multiple Spanning Tree Protocol)
	ITU-T G.8032 / Y.1344	ERPS (Ethernet Ring Protection Switching)
	IEEE 802.1Q	Virtual LANs (VLAN)
	IEEE 802.1X	Port based and MAC based Network Access Control, Authentication
	IEEE 802.3ad	Link aggregation for parallel links with LACP(Link Aggregation Control Protocol)
	IEEE 802.3X	Flow control for full duplex
	IEEE 802.1ad	Stacked VLANs, Q-In-Q
	IEEE 802.1p	LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization
	IEEE 802.1ab	Link Layer Discovery Protocol (LLDP)
VLAN ID	4094	IEEE 802.1Q VLAN VID
Switch Architecture	Back-plane (Switching Fabric): 56Gbps (Full wire-speed)	
Data Processing	Store and Forward	
Network Connector	SFP: 12x 100/1000Base-X SFP socket Support DDMI RJ45: 24x 10/100/1000Base-T RJ-45 Support Auto negotiation speed, Auto MDI/MDI-X function	
Console	RS-232 (RJ-45)	
USB	1x USB 2.0 For storage to update firmware, Configuration back, Configuration restore, boot up and syslog	
Push button	For reset and multiple function	
Network Cable	UTP/STP Cat.5e cable or above EIA/TIA-568 100-ohm (100meter)	
Protocols	CSMA/CD	
Reverse Polarity Protection	For input power	
Overload Current Protection	Supported	
Power Supply	Redundant High voltage AC/DC : isolated 110/220V AC/DC (90VAC~264VAC) or (88~370VDC)	
Power Consumption	<50.6W @ 110/220V AC/DC	

LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Green/Amber), Ring Master (Green), Ring State (Green) P1~P28 Link/Active (Green) P1~P28 Speed 1000M (Amber) 10/100M (Off)
Jumbo Frame	9K Byte
MAC Address Table	16K
Memory Buffer	1.5M Bytes for packet buffer
Warning Message	System Syslog, SMTP/ e-mail event message, alarm relay
Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC, removable terminal block
Digital Input	1x isolated input 13~30VDC for state 1 -30~ 3VDC for state 0
Operating Temperature	-40 ~ 85°C
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP30 Protection, Fanless
Dimensions	331 x 440 x 44mm (D x W x H)
Weight	4.8 kg
Installation Mounting	19" rack mount
MTBF	70,621 Hours (MIL-HDBK-217)
Warranty	5 years
Certification	
EMC	CE
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 4, Criteria B EN61000-4-3 (RS) Level 4, Criteria A EN61000-4-4 (Burst) Level 4, Criteria A EN61000-4-5 (Surge) Level 4, Criteria B EN61000-4-6 (CS) Level 4, Criteria A
Power Substation	IEC 61850-3, IEEE 1613
Safety	EN62368-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6