



GT-SG-3012-4GF-PI

8 Port Network Industrial Grade PoE Switch

Technical Specifications

Model Number GT-SG-3012-4GF-PI

General

Interfaces 8 × 10/100/1000Base-T PoE / PoE+ Ports & 4 × 1000Base-X SFP Ports.

Other Interfaces 1 x RS-232 Console Port (RJ-45) 2 relay outputs with current carrying capacity of 1A @ 24 VDC

Media Interface Exchange Auto MDI/MDIX adjustment for all twisted-pair ports

Other Port Standards & Functions
 IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
 IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
 IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)
 IEEE 802.3az compliance
 Auto-negotiation
 IEEE 802.3x Flow Control
 IEEE 802.3z

Duplex Mode
 Full/Half-duplex for 10/100 Mbps
 Full-duplex for 1000 Mbps

Performance

Switching Capacity 24Gbps

MAC Address table 16K

Transmission Method Store-and-forward

Packet Buffer Size 1.5MB

Software Features

Protocol Support	IPv4 / IPv6, IGMP v1/v2, MLD v2, DHCP Server / Client / Relay, GARP, GVRP, NTP, SNTP, IEEE1588 PTP v2, 802.1x, EAP, TACACS+, SMTP, SNMP v1/v2/v3, RMON, TFTP, ICMP, Telnet, Syslog, LLDP, LACP, Pingv6
VLAN	802.1Q VLAN (512 Active VLAN) Port Based VLAN Protocol based VLAN IP Subnet Based VLAN MAC Based VLAN
QoS	802.1p 8 Priority Queues Queue Handling: Strict, Weighted Round Robin, Deficit Weighted Round Robin.
Security	802.1x, TACACS+, Layer 2 & Layer 3 ACL

Standards & Certifications

Safety	UL 60950-1 2nd Ed. /CSA C22.2 No.60950-1-07 2nd Ed. / EN 60950-1 / CB
EMC	FCC Part 15, Subpart B, Class A EN 55032, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4,
EMS	IEC 61000-4-2 ESD IEC 61000-4-3 RS IEC 61000-4-4 EFT IEC 61000-4-5 Surge IEC 61000-4-6 CS IEC 61000-4-8 PFMF IEC 61000-4-11 DIP
Shock	MIL-STD-810G Method 516.5
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2
Freefall	MIL-STD-810F Method 516.5
Environmental	ROHS II
MTBF	175200 Hrs

Physical / Environmental

Diagnostic LED	PWR1, PWR2, Alarm, Run, Ring, Ring Master, Link/Speed, PoE Status
Weight	800g
Dimension (W x H x D)	54 × 113 × 145 mm
Operating Temperature	-20°C~70°C (-4°F~158°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Ambient Relative Humidity	5%~95%, 55°C (Non-condensing)
Housing	IP30-rated metal casing
installation	DIN rail / wall mountable

Power Requirements

Power Input	51 to 57V DC Redundant Inputs
Input Current	5.0A @ 51VDC (Support up to 8 ports at 30W per PoE port)
Reverse Polarity Protection	Yes

Ordering Information

Part code	Description
GT-SG-3012-4GF-PI	GT-8-Port 10/100/1000 base-T L2 managed PoE Industrial Switch with 4 Gigabit Fiber SFP Slots (-40° to 70°C operating Temperature) with 240W Industrial Power Supply
GT-PS-240W-IG	240W Industrial Power Supply

