

## 24+4 Port Industrial Managed Gigabit Ethernet Switch with POE



### PRODUCT OVERVIEW



- 24x Gigabit Ethernet ports with IEEE 802.3at POE
- 4x 1000F(x) SFP Slot
- Built for harsh environments and wide temperature range applications
- RSTP, MSTP, ERPS, MRP, 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
- USB storage for configuration-free replacement
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- Supports PoE PD Alive Check function for PoE Device Power Cycle

### ORDERING INFORMATION

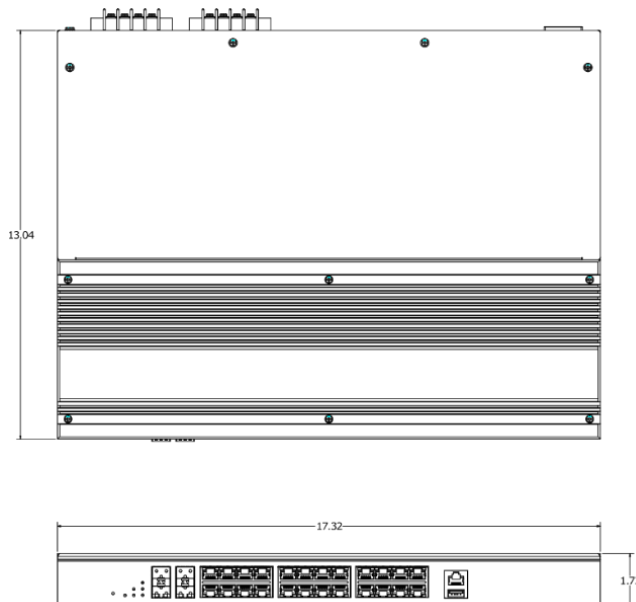
PART CODE	DESCRIPTION
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GEMS2-24T+4G/AT	Gigabit Ethernet Managed Switch Layer 2 with 8TX 30W POE and 4FX ports
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RECOMMENDED ACCESSORIES
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SFP-GS2L-1313-20	SFP – 1000M, SM, 2 fiber, LC, 1310 nm, 20km
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### OUTLINE (INCHES)



## SPECIFICATIONS

## TECHNOLOGY

IEEE 802.3 10BaseT  
 IEEE 802.3u 100BaseTX  
 IEEE 802.3ab 1000BaseT  
 IEEE 802.3z 1000BaseX  
 IEEE 802.3x Flow Control  
 IEEE 802.3af Power over Ethernet  
 IEEE 802.3at PoE  
 IEEE 802.3az Energy-Efficient Ethernet  
 IEEE 802.3ad/802.1AX LACP  
 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

## Standards

**Processing Type** Store and Forward

## SWITCH PROPERTIES

**Switch Fabric** 56 Gbps

**Priority Queues** 8 Queues

**Jumbo Frame** 9216 bytes

**MAC Table Size** 16K

**Packet Buffer** 12 Mbits

**VLAN Table Size** 4094

**IGMP Group** 512

**ACL Group** 512

## SOFTWARE FEATURES

**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, USB

**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

**Industrial Profiles** Ethernet/IP, Modbus TCP, Profinet

**PoE** Power Status, Monitoring, Scheduling, PD Alive check

## INTERFACE

**RJ45 Port** 24x 10/100/1000T(x) with PoE+, auto negotiation speed duplex mode, auto MDI/MDI-X MDI MODE A PoE wiring - ENDSPAN

**Fiber Port** 4x 1000F(x) SFP Slot

**LED Indicators** PWR1, PWR2, Fault, Ring Master, Ring State  
**Ports:** Link/Active with highest speed(Green), low speed(Amber)  
**PoE:** Output Power

**Alarm Contact** 1x relay output with current carrying capacity of 1A @ 24 VDC

**Digital Inputs** 1x isolated input from the electronics.

+13 to +30V for state "1"

-30 to +3V for state "0"

Max. input current: 8mA

**Button** Multiple function reset button

**Serial Console** 1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1

**Storage** 1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

## SPECIFICATIONS (CONTINUED)

## POWER REQUIREMENTS

Operation Voltage	90-264VAC, 48-57VDC redundant dual inputs
Connection	AC socket, DC 4-contact terminal block
Power Consumption	0.38A@48VDC (switch only)
Protection	Overload Current Protected, Reverse Polarity Protected
PoE Budget	30W per Channel, 348W max AC @ 50C 720W max DC

## MECHANICAL CONSTRUCTION

Enclosure	Aluminum/Steel
Protection Class	IP30
Dimensions (WxHxD)	17.32 x 1.73 x 13.04 inches 440 x 44 x 331 mm
Weight	6.00 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	UL 60950-1/62368 (Pending)
MTBF	>100,000 hours
Warranty	5 Years

## Notes:

- In a continuing effort of improvement and updating technology, product specifications are subject to change without notice

## CONTACT US

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