

## Industrial 8-port 10/100/1000T 802.3at PoE + 4-port 100/1000X SFP Managed Ethernet Switch

### Features

- ▶ 100/1000BASE-X mini-GBIC/SFP slots for SFP type auto detection
- ▶ Provide SC/FC/ST/LC fiber port (optional), support single/dual fiber transmission
- ▶ Support 10K bytes giant frame, compatible with various extension protocol
- ▶ Support IEEE802.3az energy efficient Ethernet technology, 8K MAC address table
- ▶ IPv6 Protocol, Electric 8KV surge protection
- ▶ Complete status indicator, working state at a glance
- ▶ Power input polarity protection design, no worry about wrong operation
- ▶ Metal case, no fan design
- ▶ Installation method: DIN rail /Wall mounting
- ▶ DHCP RFC 1541, 1542

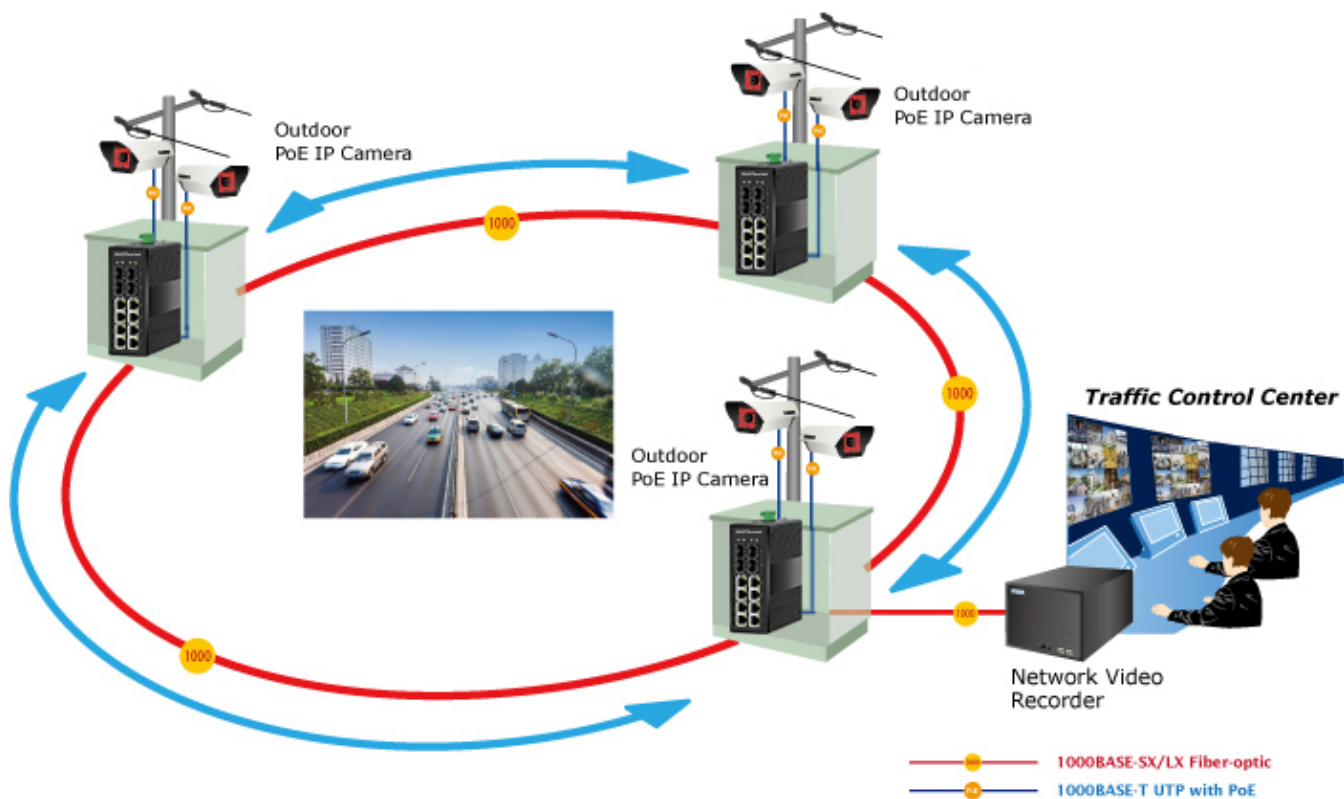


### Overview

GM-8048GP SFP Series is a new generation industrial Power over Ethernet Managed Ethernet switch with 8-Port 10/100/1000Base-T 802.3at PoE+ and 4-Port 100/1000Base-X SFP that provide stable and reliable Ethernet transmission offered by E-link, with high quality design and reliability. It is positioning in the broadband network intervention market, to offer and realize Ethernet data exchange, convergence and long-distance optical transmission with efficient bandwidth and reliable fiber optic network solutions for users. The industrial switch complies with various characteristics such as mini size, no fan, low power consumption, high reliability and stability, and easy to maintain.

With dual power input design, GM-8048GP SFP can offer redundant mechanisms for critical applications that need always-on connections. It can also operate either at standard operating temperature range -40 to 80° C. Housed in rugged DIN rail or wall mountable IP40 enclosures, these switches are perfect choices for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

# Application



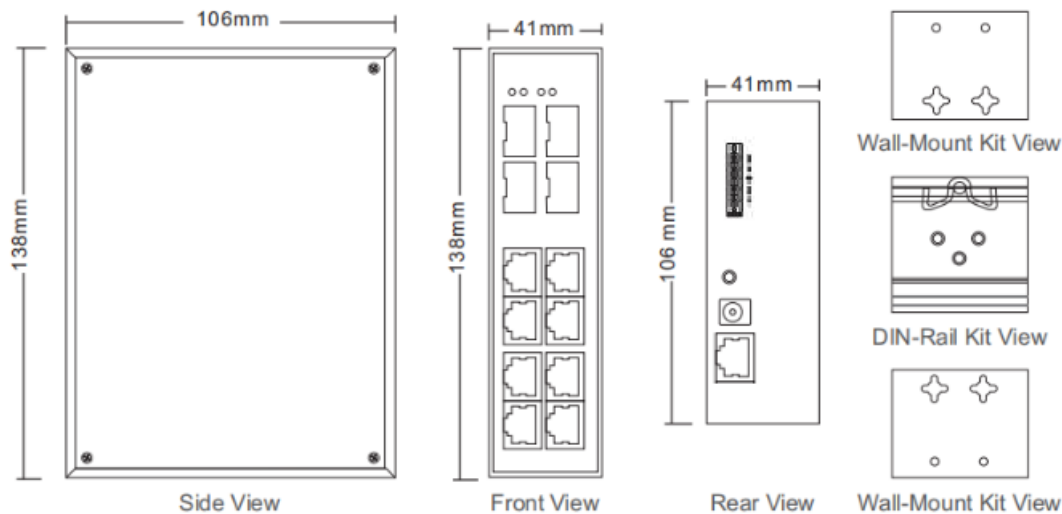
# Technical Indexes

<b>Physical Port</b>	
RJ45 port and speed	8 x 10/100/1000Base-TX 802.3at PoE
Fiber port and speed	4 x 100/1000Base-FX SFP (Dual Mode, Auto Detection)
<b>Parameters</b>	
Ethernet standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T IEEE 802.3x flow control and back pressure IEEE 802.3az Energy Efficient Ethernet IEEE 802.3ad port trunk with LACP IEEE 802.3ah Configuring Ethernet OAM IEEE 802.1D Spanning Tree Protocol IEEE 802.1x Port Authentication Network Control IEEE 802.1Q VLAN tagging IEEE 1588
Packet buffer	4Mbits
Maximum packet length	Up to 10K Bytes

MAC address table	8K
Transmission mode	Store and Forward (full/half duplex mode)
Exchange property	Delay time: < 7μs Backplane bandwidth: 20Gbps Packet forwarding rate: 14.88Mpps
<b>PoE</b>	
PoE Standard	8 x IEEE 802.3af /IEEE 802.3at PoE
Power budget	Max. PoE output power budget 30W
<b>LED Indicator</b>	
Power	Connect-always
RJ45	Link/Act: connect-always; Data exchange-twinkle Speed light: 100Mbps-always; 10Mbps-twinkle
Fiber	Link/Act: connect-always; Data exchange-twinkle
<b>Power Information</b>	
Power access mode	Phoenix terminal, DC seat
Redundant power input	DC 48-57V
Overload protection	Yes
Power reverse	Support
Power consumption	Full-load<15W (Not use PoE)
<b>Physical Property</b>	
Protection grade	IP40 aluminum case
Cooling mode	Natural cooling, no fan design
Dimensions	138mm x 106mm x 41mm (L x W x H)
Installation mode	DIN Rail/Wall-mountable
Weight	700g
<b>Working Environment</b>	
Operating Temperature	-40°C~80°C
Operating Humidity	5%~90% non-condensing
Storage Temperature	-40°C~85°C
<b>Warranty</b>	
MTBF	500,000 hours
Defects Liability Period	2-years warranty, lifetime technical support
<b>Certification Standard</b>	
EMI	FCC Part15 Subpart B Class A, EN 55022 Class A
EMS	EN61000-4-2(ESD), EN61000-4-3(RS), EN61000-4-4(EFT), EN61000-4-5(Surge), EN61000-4-6(CS),

	EN61000-4-8, EN61000-4-11
Collision	IEC60068-2-27
Drop	IEC60068-2-32
Vibration	IEC60068-2-6
Safety grade	EN60950-1
<b>Software</b>	
<b>Software Features</b>	Redundant network: STP, EAPS/ERPS
	Multicast: IGMP Snooping V1/V2/V3, GMRP
	VLAN: IEEE 802.1Q 4K VLAN, QinQ
	Link Aggregation: manual / static / LACP
	QoS: COS, DSCP, 8 queues, WRR/SP/WFQ scheduling, QoS Policy
	Management Function: CLI/WEB/SNMP, and Primestone NIS management system
	Diagnostic Maintenance: Port mirroring, Syslog, Ping
	Alarm management: 1-way relay alarm output, RMON, SNMP Trap
	Security DHCP Snooping, Option 82, 802.1X, User hierarchical management, ACL, DDOS, port based MAC filtering / binding
	Data control: Port-based ingress/egress speed limit, Full duplex IEEE 802.3x, half duplex back-pressure flow control. Broadcast storm suppression, Unknown-Multicast suppression and Unknown-Unicast suppression.

**Dimension**



**Ordering Information**

<b>Model</b>	<b>Description</b>
GM-8048GP-SFP	Industrial 8-port 10/100/1000T 802.3at PoE + 4-port 100/1000X SFP Managed Ethernet Switch
SFP Options	▶ SFP option. Please select your SFP on our SFP Options Page (Industrial SFP).
	▶ SFP module is to be purchased separately.
Mounting Options	▶ Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
Power Options	▶ 240W/5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block.
	▶ Power Supply is to be purchased separately.