

G-W12R4080 DIN-Rail WEB Managed Industrial Switch



G-W12R4080 DIN-Rail WEB Managed Industrial Switch supports 4 100/1000BaseX SFP ports + 8 10/100/1000BaseT ports, which is specially designed for harsh environments, providing economic solutions for industrial Ethernet connections. The working temperature of the switch is $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$.

G-W12R4080 DIN-Rail WEB Managed Industrial Switch adopts redundant dual power inputs, 9.6~60VDC and 18~30VAC, DIN-Rail mounted. With rugged aluminum alloy housing, IP40 protection class, the switch passed the high level tests of EMI/EMC, and has gone through strict aging test, meeting the requirements of security industry.

Features and Benefits

- All 1000M ports
- 52Gbps backplane bandwidth
- Wide and varied power supply range
- Non-rust aluminum alloy housing and torx screws
- Support WEB management
- All ports support wire-speed forwarding and automatic turnover, supporting long-distance transmission
- Support one-click port isolation and self-recovery ring network
- Support one-click factory settings restoration and restart

- Support uploading and downloading configuration files
- Lightning protection: power supply $\pm 4\text{KV}$, RJ45 port $\pm 4\text{KV}$
- IP40 protection class
- Small and easy to install, plug and play without configuring
- Fanless design, wide working temperature and quiet operation
- MTBF $\geq 300,000\text{h}$

Technical Specifications

- IEEE 802.3 CSMA/CD Method and Physical Layer Specifications
- IEEE 802.1p Priority Queuing
- IEEE 802.1q VLAN Tagging
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.3ac VLAN Tagging
- IEEE 802.3ad Link Aggregation
- IEEE 802.3x Flow Control
- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802.3z Gigabit Ethernet
- IEEE 802 Networks
- RFC 768 UDP
- RFC 791 IP
- RFC792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 862 Echo Protocol
- RFC 863 Discard Protocol
- RFC 1027 Using ARP to Implement Transparent Subnet Gateways
- RFC 1112 IGMP
- RFC 2068 HTTP
- RFC 2236 IGMPv2
- IGMP Snooping

Switch Properties

Backplane Bandwidth:	52Gbps
Switch Architecture:	Store-Forward
MAC Table Size:	8K
Buffer Size:	4.1Mbit
Exchange Rate:	148,800 pps/100M port; 1,488,000 pps/1000M port

Software Functions

Management Mode:	WEB based on HTTP, SNMPv1, SNMPv2
Diagnosis Mode:	Indicator Light, Journal File, Port Mirroring, TRAP
Redundancy:	RSTP
DIP Switch:	VLAN, RSTP
Others:	4K VLANS, IPv4 Multicast, storm control, support Jumbo Frame

Power Parameters

Connections:	5-PIN terminal block	
Input Voltage:	9.6 ~ 60VDC & 18 ~ 30VAC, dual inputs	
Overload Protection:	Current	Supported
Reverse Polarity Protection:	Polarity	Supported

Physical Performance

Installation:	DIN-Rail Mounted
Housing:	Aluminum Alloy Housing
Protection Class:	IP40
Dimensions (W×H×D):	50mm × 140mm × 110mm
Weight:	<0.75kg

Mechanical Characteristics

Vibration:	IEC 60068-2-6
Shock:	IEC 60068-2-27

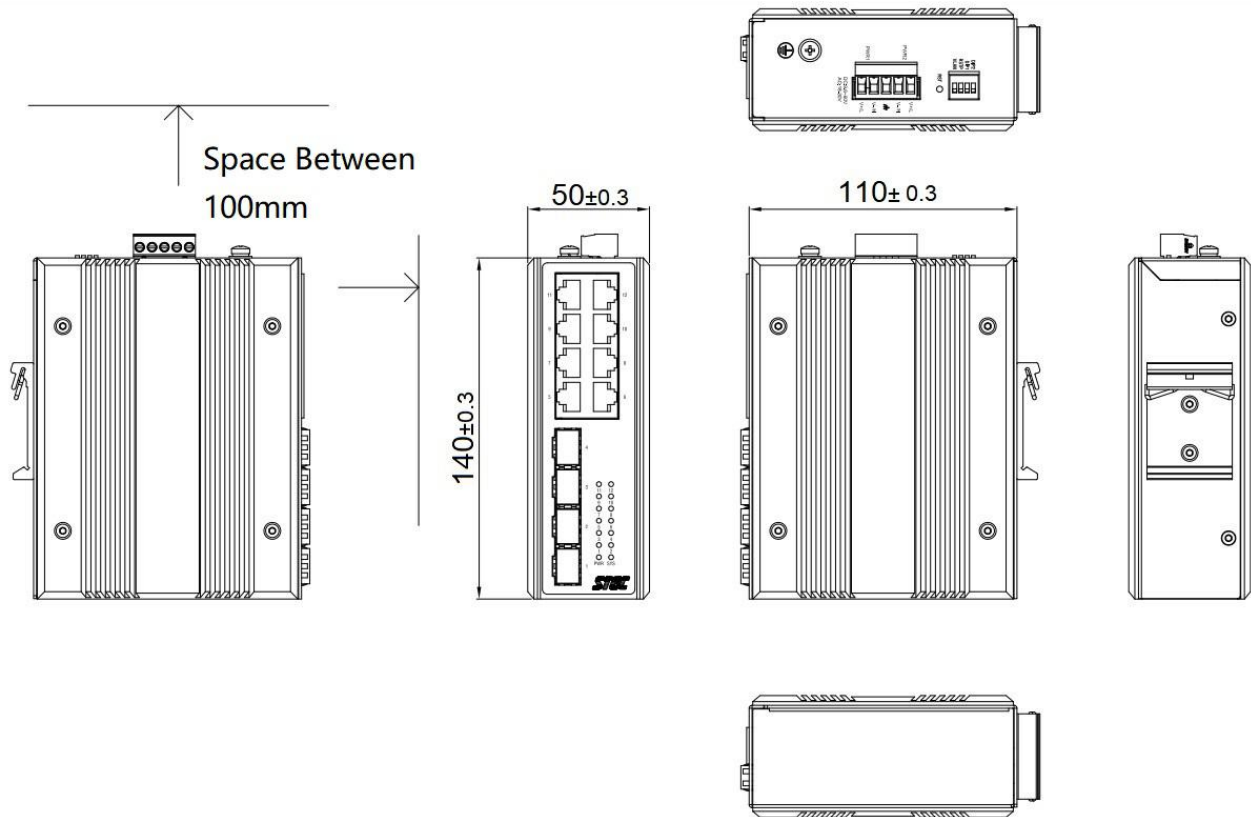
Free-fall:	IEC 60068-2-31
Circuit Board:	Approved by IPC
Environment Limits	
Storage Temperature:	-40°C ~ +85°C
Operating Temperature:	-40°C ~ +85°C
Ambient Humidity:	Relative Humidity: 5% ~ 95% (Non-condensing)

Electromagnetic Characteristics	
EMI:	FCC 47 CFR Part 15 Class A
	EN55032 Class A
	EN55035 Class A
EMC:	IEC(EN)61000-4-2, Class 4
	IEC(EN)61000-4-3, Class 3
	IEC(EN)61000-4-4, Class 4
	IEC(EN)61000-4-5, Class 4
	IEC(EN)61000-4-6, Class 3
	IEC(EN)61000-4-8, Class 5

Industrial Certification and Test	
Product Safety:	EN 62368-1
EMC:	EN 55032
	EN 55035
	EN IEC61000-3-2
	EN 61000-3-3
	FCC Part 15 Subpart B Class A
Others:	Test Report from Ministry of Public Security, Network Access License, RoHS

Dimensions

Unit: mm



Ordering Information

P/N	Description
G-W12R4080	12-Port DIN-Rail WEB Managed Industrial Switch made from Anti-Corrosion Aluminum Alloy, support 4 100/1000BaseX SFP ports (SFP module not included) + 8 10/100/1000BaseT ports. IP40 protection class. Operating temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$. Dual redundant power inputs, 9.6 ~ 60VDC & 18 ~ 30VAC.