L2+ Managed Industrial Switch

Key Features & Highlights

- Input Voltage: DC48~58V for PoE
- Operating Temperature: -40℃~85℃
- Shell: IP40 protection
- Fanless design, low power consumption
- ESD: contact 8KV, air 15KV
- MTBF: 100,000 hours

| Product Overview

The **AGNIGATE S6008-2G8GP-IGM** is a high-performance Layer 2+ managed industrial Ethernet switch engineered for mission-critical networking in harsh environments. Equipped with 8 Gigabit PoE+ ports and 2 Gigabit SFP optical uplink ports, it delivers cost-effective, high-bandwidth data transmission and dependable power delivery.

Constructed with a rugged, Fanless IP40 aluminum alloy enclosure, the switch offers redundant DC power inputs and withstands extreme operating temperatures ranging from -40°C to +85°C. It meets stringent industrial EMC/EMI standards and has undergone rigorous environmental stress screening (burn-in/aging tests), making it ideal for intelligent transportation systems (ITS), smart city infrastructure, industrial automation, oil & gas, and outdoor surveillance deployments.

| Technical Reference

- IEEE 802.3 CSMA/CD method
- IEEE 802.3 af PoE
- IEEE 802.3 at PoE+
- IEEE 802.3x Flow Control
- IEEE 802 Networks
- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX
- IEEE 802.3z Gigabit SX/LX
- IEEE 802.3ab Gigabit 1000T
- IEEE 802.3ad port trunk with LACP
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1w Rapid Spanning Tree Protocol
- IEEE 802.1s Multiple Spanning Tree Protocol
- IEEE 802.1p Class of Service
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3ah Ethernet Link OAM

- IEEE 802.1Q VLAN tagging
- IEEE 802.1X Port Authentication Network Control
- IEEE 802.1ab LLDP
- IEEE 802.1ag Connectivity Fault Management(CFM)
- RFC 1112 IGMP v1
- RFC 2236 IGMP v2
- RFC 3376 IGMP v3
- RFC 2710 MLD v1
- RFC 4604 MLD v2
- RFC783 TFTP
- RFC 791 IP
- RFC 792 ICMP
- RFC 2068 HTTP
- RFC 2616 HTTPS
- ITU-T G.8032 ERPS Ring

| EMC & Protection

- IP Level: IP40
- Surge of Power: IEC 61000-4-5 Level X (4KV/4KV) (1.2/50us)
- Surge of Ethernet port: IEC 61000-4-5 Level 4 (4KV/4KV) (10/700us)
- RS: IEC 61000-4-3 Level 3 (10V/m)
- EFI:IEC 61000-4-4 Level 3 (1V/2V)
- CS: IEC 61000-4-6 Level 3 (10V/m)
- PFMF: IEC 61000-4-8 Level 4 (30A/m)
- DIP:IEC 61000-4-11 Level 3 (10V)
- ESD:IEC 61000-4-2 Level 4 (8K/15K)
- Free fall: 0.5m

| Hardware Specifications

Model	S6008-2G8GP-IGM
Interface	8*10/100/1000M RJ45 ports, 2*1000M SFP ports +
Switching Capacity	20Gbps
Packets Forwarding Rate	14.88Mpps
MAC Table	8K
Packet Buffer	4.1M
Forwarding Delay	<10us

Power Supply	Phoenix terminal, DC redundant input
	Input Voltage: DC48-58V
	Empty Load Power: <10W
LED Indicators	PWR, NMC,Link/ACT LED
PoE	1-8 ports support PoE+ PoE budget: 250W IEEE802.3 af/at standard PIN Sequence: 1,2+/3,6-
Environment	Working Temperature: –40℃ ~ 85℃
	Storage Temperature: –40℃ ~ 85℃
	Working Humidity: 5%~95% non-condensing
	Storage Humidity: 5%~95% non-condensing
SIZE(W*D*H)	143*104*51.5mm
Weight	0.68KG
Installation Method	Din Rail
Certificate Compliance	CE/FCC/RoHS
MTBF	100,000 hours

Software Specifications

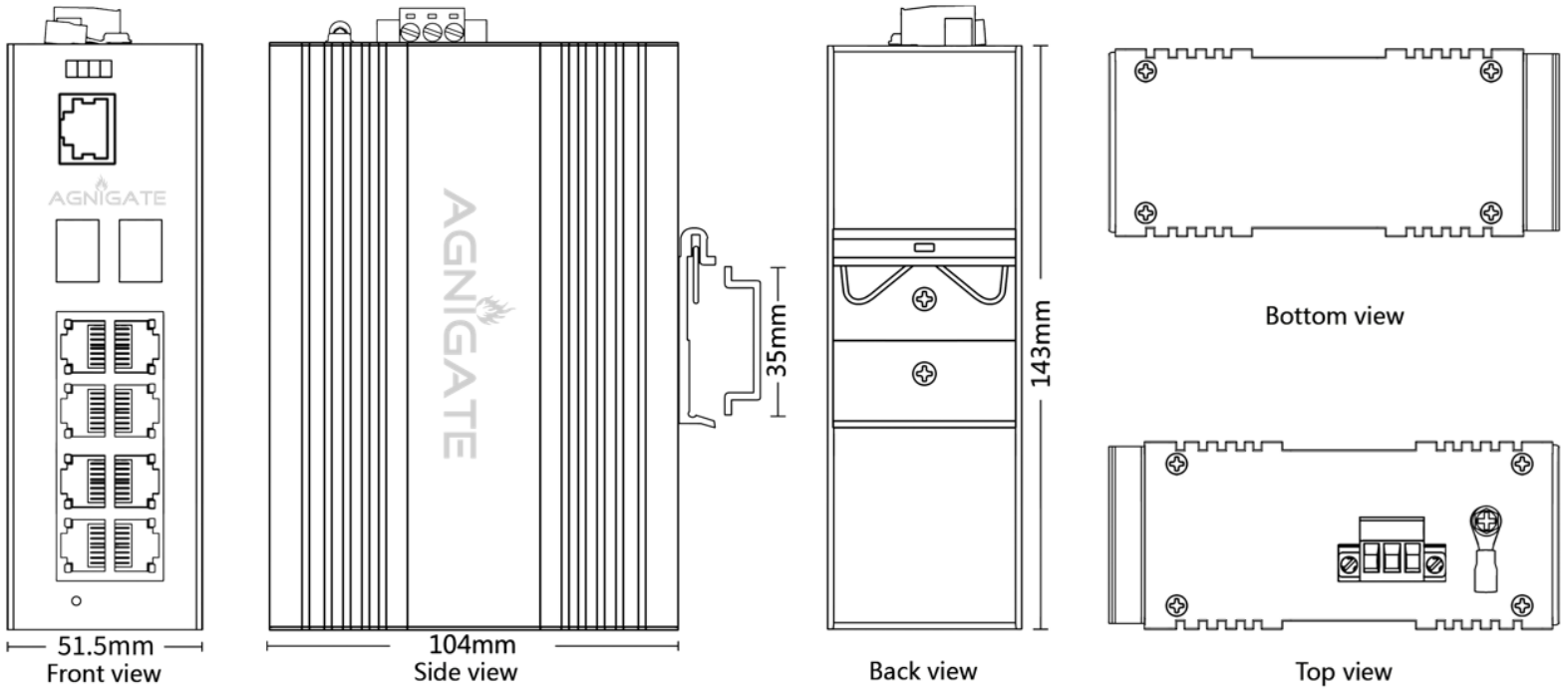
Model	S6008-2G8GP-IGM
VLAN	Support 4K IEEE 802.1Q VLAN, 802.1ad – QinQ
	Support protocol VLAN
	Support MAC VLAN
	Support voice VLAN
	Support video VLAN
	Support GARP

Model	S6008-2G8GP-IGM
LACP	Support IEEE 802.3ad
	Support static LACP
	Support dynamic LACP
STP	Support IEEE 802.1d STP
	Support IEEE 802.1w RSTP
	Support IEEE 802.1s MSTP
	Spanning Tree BPDU Filtering
	Spanning Tree BPDU Guard
	Spanning Tree Edge Port
LLDP	Support IEEE 802.1ab protocol
ERPS	Support ITUT G.8032 protocol
Port	Support Jumbo Frame
	Support IEEE802.3X Flow Control
	Support port statistics
	Support Auto-MDI/MDIX
Multicast	Support IGMP Snooping
	Support MLD Snooping
	Support MVR
ACL	Support MAC Standard/Extended ACL
	Support IPv4 Standard/Extended ACL
	Support IPv6 Standard/Extended ACL
QoS	Support QoS Re-marking
	Support Port Trust
	Support Port Rate Limiting
	Support Egress Queue Rate Limiting
	Support SP, WRR scheduling algorithms
	Support CoS, DSCP, IP Priority Mapping
DHCP	DHCP Interface Priority IP Binding
	Support DHCP Snooping
	Support DHCP Client

Model	S6008-2G8GP-IGM
DHCP	Support DHCP Server
L3 Route	IPv4 Management Address
	IPV6 Management Address
	Static IPv4 Route
	Static IPv6 Route
	ARP
	Loopback Interface
Security	Support Management Channel Configuration
	Support AAA
	Support IEEE802.1X
	Support MAC-Based IEEE802.1X
	Support WEB-Based IEEE802.1X
	Denial of Service Protection
	Dynamic ARP Inspection(DAI)
	IP Source Guard
	Port Security
	Port Isolation
DNS	Support DNS Client
	Support DNS Server
Diagnosis	Support Console Logs
	Support RAM logs
	Support Flash logs
	Support Port Mirroring(1:1,N:1)
	Support Ping
	Support Traceroute
	Support Cable Test
	Support UDLD protocol
	Support Optical Module Information
Management	Support User Management
	Support System Log

Model	S6008-2G8GP-IGM
Management	Support Firmware Upgrade
	Support File Upgrade
	Support SNMP
	Support WEB Management
	Support Console
	Support CLI
	Support Telnet/SSH
	Support SNTP Client
	Support RMON
EEE	Support IEEE802.3az

Product Dimension



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