



Key features

8/6 Gigabit RJ45 Copper ports plus 0/2 100 / 1000 Based SFP(SX/LX/LHX) ports

Support 9K Jumbo frames

Layer 2 wired-Speed switching engine

Layer 4 ACL (Access Control List), QCL (QoS Control List), Port Control

Network redundancy LACP, Spanning Tree Protocol, STP, RSTP, MSTP

I.A. Ring, I.A.Chain (Network Load Balancing), 250pcs@20ms

Ring Coupling, Multiple Ring, Dual Homing

Port-based, Tag-based, Protocol-based VLAN, IEEE 802.1ad / QinQ, MVR

Multicasting support IGMP v1/v2, proxy & snooping, MLD snooping

IEEE 802.1X Port-based access control / RADIUS / TACACS+ Server

VeriPHY Cable Diagnostics, Per VLAN mirroring

Redundant Power Input (12~58 VDC) & Reverse power protection

SNMP v1/v2c/v3, Trap / Inform, RMON

Din-Rail and Wall Mount Installation

Port Power Saving

Loop Protection

-40~75°C operating temperature

2KV surge immunity on RJ45 Copper port

Rugged Fanless Design

IS-DG508-DR Series

8-port Gigabit Din-Rail Managed Layer 2/4 Industrial Ethernet Switch

The IS-DG508-DR Series are full Gigabit Ethernet Switches with 8 Gigabit Ethernet ports, perfect for upgrading an existing network to a full Gigabit speed Infrastructure; a full Gigabit network provides higher throughput than legacy Fast Ethernet network. The IS-DG508-DR Series reduce the response time for timing sensitive applications which may combine all video, voice, and data streams in the traffic flow. With the powerful S/W and H/W features, the IS-DG508-DR Series prioritize, partition and optimize user's network while provide reliable and quality services. The IS-DG508-DR Series switches are suitable for all kinds of Industrial applications.



Technical specifications

Ethernet	
Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	8K
Packet Buffer	4 Mbits
RJ45 copper ports	
Speed	10/100/1000 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex
Ethernet Port Protection	1.5KV VRMS 1minute(Hipot), 2KV surge immunity on RJ45 Copper ports
Fiber Ports	
Port Types supported	100/1000 Base SFP Slot
Fiber port connector	LC/RJ45 connector for fiber ports
Optimal fiber cable	Typical 50 or 62.5/125 µm for multimode (mm) Typical 8 or 9/125 µm for single mode (sm)
Network Redundancy	
I.A.Ring / I.A. Chain	Link Loss Recovery < 20ms@250pcs
Network Topology Optimize Functions	Ring Coupling, Multiple-Ring, Dual-Homing
Spanning Tree Protocol	IEEE 802.1D/1w/1s, STP/RSTP/MSTP
Port Trunk / LACP	Static Trunk or LACP (Link Aggregation Control Protocol)
Bridge, VLANs, Protocols	
Flow Control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Max VLANs	256
VLAN Types	Port-Based VLAN, Private VLAN, MAC-Based VLAN
	IEEE 802.1Q tag-based VLAN, IP Subnet-Based VLAN, Voice VLAN
	IEEE 802.1ad Double Tagging (QinQ), Protocol-Based VLAN, VCL
Multicast protocols	IGMP v1, v2, V3, up to 255 multicast groups
	IGMP snooping, querying, MLD Snooping, GVRP
	Immediate leave and leave proxy, Throttling and filtering
LLDP	IEEE 802.1ab LLDP / LLDP-MED
Traffic management & QoS	
Priority	IEEE 802.1p QoS, Ingress / Egress, QCL
Number of queues per port	8
Scheduling schemes	SPQ, WRR, SPQ+WRR
Traffic Shaper	Port-based shaping
Security	
Port Security	IP and MAC-based Access Control/Filter, Auth User / Privilege Level Control
	IEEE 802.1X Authentication Network Access Control / RADIUS / TACACS+ Server
Storm Control	Multicast / Broadcast / Flooding Storm Control / Port Access Control / Limiters

Technical specifications

Management	
User Management Interfaces	Cisco-Like CLI (Command Line Interface)
	Web-based Management, Windows Utility for quick startup
	SNMP V1, V2c, V3 USM, RMON, Trap / Inform / Retry, Telnet (5 sessions)
Management Security	HTTPS, SSH, Access Management, Loop Protection
	RADIUS Client for Management
Upgrade & Restore	TFTP for Configuration Import / Export
	TFTP for Firmware Upgrade
Diagnostic	Syslog, Level Info / Warning / Error, Detailed Syslog
	Port Mirror, Per VLAN mirroring, CPU Load Monitor, Traffic Counter
	VeriPHY Ethernet Cable Diagnostics, ICMP Ping
MIBs	RFC 1757RMON 1, 2, 3, 9; RFC 2674 Q-Bridge MIB
	RFC 1213 MIB II; RFC 1493 Bridge MIB; RFC 2233 IF MIB
DHCP	Client Mode, Server Mode, Relay Mode, Snooping, Option 82
NTP/SNTP	YES
System Status	Device info/status; Ethernet port status
Green Ethernet	Port Power Savings
Layer 4 Security	Access Control List

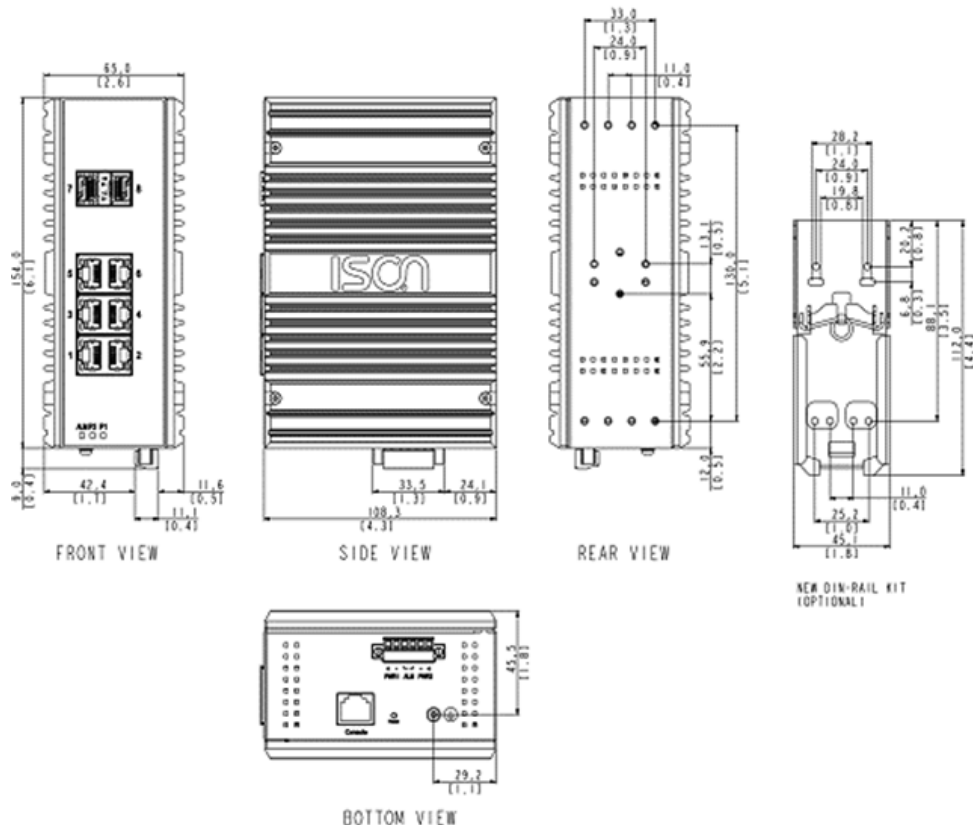
Power	
Power Input	Redundant Power Input, Removable Terminal Block
Input Voltage Range	12-58 VDC
Reverse power protection	YES
Transient protection	> 15, 000 Watts peak
Power Consumption	IS-DG508-2F-DR 9Watt. IS-DG508-DR 8.1Watt

Indicators	
Power status indication	Power Input status
Ethernet port indication	Link & speed

Environmental & Compliances	
Operating Temperature	-40~75°C (Cold startup at -40°C)
Storage Temperature	-40~85°C
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-6, -27, -32
Certification Compliance	CE, FCC,DNV, IACS E10, IEC 60945
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3)
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>25 years

Mechanical	
Protection	IP30
Dimension	154mm x 65mm x 108mm(Lx-WxD)
Weight	1.18 kg
Installation	Din-Rail Mount, Wall mount
Relay Output	1A, 24V, Normal Open

Dimension Diagram



Ordering information

Available Models	Description	10/100/1000Mb TX	100/1000Mb FX
IS-DG508-DR	Industrial 8 port Gigabit Layer 2/4 Managed Ethernet Switch, -40~75°C	8	
IS-DG508-2F-DR	Industrial 8 port Gigabit Layer 2/4 Managed Ethernet Switch, -40~75°C	6	2

Accessories

1. 100 Mb SFP Modules
2. Gigabit SFP Modules