

Product Highlights

Modular Architecture

The modular architecture of the switch allows versatile port options of Gigabit copper, PoE & Non PoE, Giga SFP & up to 4 10G SFP+ or 1G SFP interface in a single switch.

Robust Design

High EMC endurance, fanless design, and wider operating temperature range combined with IP30 housing to withstand harsh operating environments.

Automation and IIoT ready

PROFINET certified and Ethernet/IP ready switch, perfect for being the backbone of Industrial automation network.



DGS-F3600 Series

Layer 3 Gigabit Modular Industrial Switch

Features

Robust Design

- IP30-rated metal housing
- Fanless, passive cooling design
- High EMC endurance

Network Redundancy

- Ethernet Ring Protection Switching (ERPS)
- Dual power input for redundant power supplies

Switching Features

- IEEE 802.1Q and port-based VLAN
- IEEE 802.1p Quality of Service (QoS)
- STP/RSTP/MSTP
- Port mirroring
- Link aggregation
- Bandwidth control
- Broadcast storm control

Layer 3 Features

- Supports RIP & OSPF
- Protocol Independ Multicast (PIM)

The DGS-F3600 Series Layer 3 Modular Gigabit Industrial Managed Switches are equipped with 4 10G SFP+ or 1G SFP Ports & 3 open slots for 8 Gigabit port interface modules. These switches feature a robust design making them ideal for deployment in industrial applications and outdoor surveillance scenarios. capable of withstanding the harshest environment. The DGS-F3600 Series furthermore integrates advanced routing, management and security functions to provide a complete solution.

Durable Design: The DGS-F3600 Series switches are housed in a highly resistant IP30-rated metal casing to protect the switches from harsh environmental conditions. The high electromagnetic compatibility (EMC) protects the DGS-F3600 Series from unwanted effects when operating in environments with strong electromagnetic interference. Meanwhile, the fanless design extends the life of DGS-F3600 Series and make it capable to operate in a wider temperature range of up to 75 °C For increased flexibility.



Automation and IIoT ready

DGS-F3600 series switches are PROFINET certified and Ethernet/IP ready; which makes them best suited choice for backbone of Industrial automation networks. This Industrial switch helps monitor performance and status as a Modbus register and as an MQTT data point, allowing your PLC or control unit to access diagnostic data in real-time through Modbus TCP protocol. This distinguish feature help to provide crucial information to a Big-Data Analytics engine.

High Redundancy and Reliability

The DGS-F3600 Series support ERPS <50 ms quick failover recovery for ring topologies that ensures minimal downtime and avoids any loss of data in mission-critical deployment environments. Meanwhile, the dual power input allows redundant power supply to make sure the network continues to operate in the event of a primary power supply failure.

Advanced Features

The DGS-F3600 Series is equipped with advanced security features such as Static MAC, Storm Control, and IGMP Snooping. Static MAC allows users to create a MAC whitelist for specific ports, helping administrators limit network access to authorized devices only. Storm Control monitors broadcast, multicast, or unknown unicast traffic and will start blocking or discarding packets which could flood the network when the defined threshold is exceeded. IGMP Snooping can reduce the load of L3 multicast routers and save bandwidth in network throughput.

Easy Troubleshooting

The DGS-F3600 Series features loopback detection and cable diagnostics to help network administrators find and solve network problems quickly and easily. Loopback detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable diagnostics helps network administrators quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.

Power over Ethernet Support

The DGS-F3600 series switches are 802.3af PoE & 802.3 at PoE+ ready switches (PoE modules only) & can provide total PoE budget up to 720W, capable of supplying up to 30 W of power per port to connected PoE-enabled devices. This effectively reduces deployment times, reduces cable clutter, and eliminates the need for dedicated power supplies to allow PoE-devices to be installed in remote locations.



DGS-F3600 Series Layer 3 Gigabit Modular Industrial Swit

Technical Specifications					
Model Number	DGS-F3600SI	DGS-F3600XI			
General					
	4 x 1G SFP Ports,	4 x 10G SFP+ Ports,			
Interfaces	3 Open Slots for 8 Gigabit Port	3 Open Slots for 8 Gigabit Port			
	Interface Modules.	Interface Modules.			
Performance					
Switching Capacity	88Gbps	128Gbps			
MAC Address table	16K				
Transmission Method	Store-and-forward				
Packet Buffer Size	1.5MB				
Physical / Environmental					
Operating Temperature	-40°C~75°C (-40°F~167°F)				
Housing	IP30-rated metal casing				
installation	19" Rack Mount				
Power Requirements					
	DC Models: 48~5	7 VDC Redundant			
Power Input	AC Models: 110~220 VAC Redundant or Single PSU				
·	PoE Power: Dual 48~57 VDC (Each power input with Max. 360W)				
Reverse Polarity	Yes (FOR DC models only.)				
Protection	res (i ore be inlodels only.)				

Software Features			
	IEEE 802.3 for 10BaseT		
	IEEE 802.3u for 100BaseT(X)		
	IEEE 802.3ab for 1000BaseT(X)		
	IEEE 802.3z for 1000BaseX		
	IEEE 802.3ae for 10 Gigabit Ethernet Fiber		
	IEEE 802.3x for Flow Control, back pressure flow control		
	IEEE 802.1D-2004 for Spanning Tree Protocol		
Standard	IEEE 802.1w for Rapid Spanning Tree Protocol		
	IEEE 802.1s for Multiple Spanning Tree Protocol		
	IEEE 802.1Q for VLAN Tagging		
	IEEE 802.1p for Class of Service		
	IEEE 802.1X for Authentication		
	IEEE 802.1ae for MAC security (MACsec) – on 4TM & 4TS only		
	IEEE 802.3ad for Port Trunk with LACP		
	IEEE 802.3az for Energy Efficient Ethernet		
	IPv4 / IPv6, IGMP v1/v2/v3, MLD v2, DHCP Server / Client / Relay, GARP, GVRP, NTP,		
Protocol Support	SNTP, IEEE1588 PTP v2, 802.1x, EAP, SMTP, SNMP v1/v2/v3, RMON, TFTP, ICMP,		
	Telnet, Syslog, LLDP, LACP, Pingv6, IPv4/IPv6 Dual Stack,		



DGS-F3600 Series Layer 3 Gigabit Modular Industrial Switch

802.1Q VLAN	
4K VLAN	
Port Based VLAN	
Protocol based VLAN	
IP Subnet Based VLAN	
MAC Based VLAN	
802.1P,	
8 Priority Queues	
Queue Handling: Strict, Weighted Round Robin, Deficit Weighted Round Robin.	
RIP V1, V2	
OSPF V2,	
VRRP,	
IPv4/IPv6 Static Routing	
PIM-DM,	
PIM-SM,	
PIM-SSM,	
DVMRP	
802.1x, Radius, TACACS+, SSL/SSH	
Layer 2 & Layer 3 ACL, Port Security, DAI, IP Source Guard, STP route guard	

Standards / Certifications / Compliance		
Safety	EN 61010-2-201 or EN-60950-1	
EMC	FCC Part 15, Subpart B, Class A	
	EN 55032, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4	
EMS	IEC 61000-4-2 ESD	
	IEC 61000-4-3 RS	
	IEC 61000-4-4 EFT	
	IEC 61000-4-5 Surge	
	IEC 61000-4-6 CS	
	IEC 61000-4-8 PFMF	
	IEC 61000-4-11 DIP	
Shock	MIL-STD-810G Method 516.5 or IEC 60068-2-27	
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2 or IEC 60068-2-6	
Freefall	MIL-STD-810F Method 516.5 or IEC60068-2-32	
Environmental	ROHS II	
MTBF	TBD	



Optional Modules			
Part Code	DGS-F3X00-8T	DGS-F3X00-8P	DGS-F3X00-8S
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Description	8 Port 10/100/1000 Base-T	8 Port 10/100/1000 Base- T PoE / PoE+	8 Port 1000 Base-X SFP
Interface	RJ-45	RJ-45	SFP Slot
Dimension	104.5 x 171.6 x 39.5mm	104.5 x 171.6 x 39.5mm	104.5 x 171.6 x 39.5mm
Weight	500 g	550 g	450 g

Ordering Information			
Part Code	Description		
Switch Chassis			
DGS-F3600SI-AC	Layer 3 Gigabit Modular Switch with 4 1G SFP Ports & 3 open slots for 8 Gigabit Port Interface Modules. Single 110~220 VAC Power supply40° C to 75° C operating temperature.		
DGS-F3600SI-ACAC	Layer 3 Gigabit Modular Switch with 4 1G SFP Ports & 3 open slots for 8 Gigabit Port Interface Modules. Dual Redundant 110~220 VAC Power supply40° C to 75° C operating temperature.		
DGS-F3600SI-DCDC	Layer 3 Gigabit Modular Switch with 4 1G SFP Ports & 3 open slots for 8 Gigabit Port Interface Modules. Dual Redundant 48~57 VDC Power supply 40° C to 75° C operating temperature.		
DGS-F3600XI-AC	Layer 3 Gigabit Modular Switch with 4 10G SFP+ Ports & 3 open slots for 8 Gigabit Port Interface Modules. Single 110~220 VAC Power supply40° C to 75° C operating temperature.		
DGS-F3600XI-ACAC	Layer 3 Gigabit Modular Switch with 4 10G SFP+ Ports & 3 open slots for 8 Gigabit Port Interface Modules. Dual Redundant 110~220 VAC Power supply40° C to 75° C operating temperature.		
DGS-F3600XI-DCDC	Layer 3 Gigabit Modular Switch with 4 10G SFP+ Ports & 3 open slots for 8 Gigabit Port Interface Modules. Dual Redundant 48~57 VDC Power supply 40° C to 75° C operating temperature.		
Interface Modules			
DGS-F3X00-8T	8 10/100/1000 Base-T Ports Interface Module.		
DGS-F3X00-8P	8 10/100/1000 Base-T PoE / PoE+ Ports Interface Module.		
DGS-F3X00-8S	8 1000 Base-X SFP Ports Interface Module.		
DGS-F3X00-4TM	4 1000 Base-T MACSec Ports Interface Module.		
DGS-F3X00-4TS	4 1000 Base-X MACSec Ports Interface Module.		

