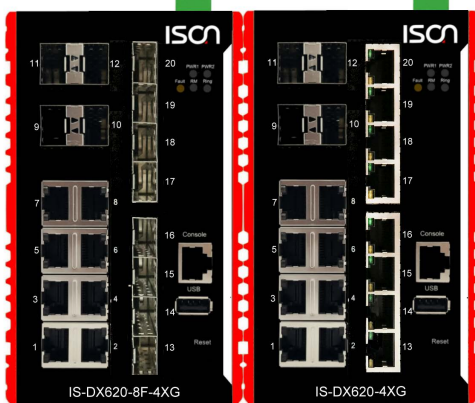
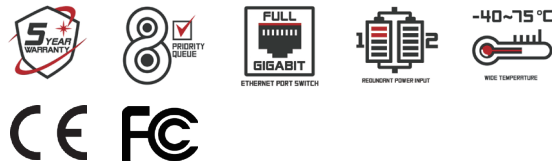


# IS-DX620 Series

20-port 10G DIN-Rail Managed Layer 2 Industrial Ethernet Switch



The IS-DX620 Series are 10G managed industrial switches featuring a fan-less/wide operating temperature (-40~75 °C) design supporting up to 16G TX/FX ports and 4x 10G SFP's. These models are perfect for upgrading an existing network to a full Gigabit speed Infrastructure or access to core layer networks; a full Gigabit network plus 10G uplinks provides higher throughput than legacy Fast Ethernet network. The switches also include some Layer 2 functionality for higher level system integration and complex network projects. The IS-DX620 Series switches are suitable for specific vertical markets like ITS, Oil & Gas and Railway applications.



## Key features

- ▶ 16/8 Gigabit RJ45 Copper ports plus 0/8 100/1000 Based SFP(SX/LX/LHX) ports plus 4 10G Based SFP+ ports
- ▶ Support 16K Jumbo frames
- ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
- ▶ Network redundancy LACP, Spanning Tree Protocol, STP, RSTP, MSTP, ERPS
- ▶ IEEE 802.1Q Tag-based VLAN, IEEE 802.1ad Double Tagging (QinQ)
- ▶ IEEE 802.1X Port-based access control, RADIUS, TACACS+, SSL, SSH
- ▶ Redundant Power Input (12~48 VDC) & Reverse power protection
- ▶ SNMP v1/v2c/v3, Trap / Inform, RMON
- ▶ DIN-Rail Mount, Wall Mount
- ▶ -40~75°C operating temperature
- ▶ IP 30 Protection
- ▶ 2KV surge immunity on RJ45 Copper port
- ▶ 1.5KV Hipot
- ▶ Rugged Fanless Design
- ▶ Fault Alarm Notification (Power, Ports)
- ▶ Support IPV4/V6

## Specification

### Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	16K
Packet Buffer	12 Mbits
Jumbo frame	16K
Switching Fabric / Back Plane	112Gbps

### 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, 4x 10G 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)

## Protocols & Standards

IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.3x, IEEE 802.1D/w/s, IEEE 802.1Q/p, IEEE 802.1ad, IEEE 802.1X, IEEE 802.3ad/802.1AX, IEEE 802.1AB LLDP, IPv4/IPv6, SNMP v1/v2c/v3, DHCP Server/Client, Relay Option 82, TFTP, Telnet, Syslog, Flow Control, Back Pressure, ICMP, UDP, TCP

## Network Redundancy

Spanning Tree Protocol	IEEE 802.1D/1w/1s, STP/RSTP/MSTP, ERPS
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)
VLAN Table Size	4094
VLAN Types	IEEE 802.1Q tag-based VLAN, IEEE 802.1ad Double Tagging (QinQ)
Multicast protocols	IGMP Snooping v1/v2/v3, IGMP Querier
LLDP	IEEE 802.1AB LLDP

## Traffic management & QoS

Priority	IEEE 802.1p QoS
Number of queues per port	8
Scheduling schemes	SPQ, WRR

## Security

Port Security	IEEE 802.1X Authentication Network Access Control / RADIUS / TACACS+ Server
Storm Protection	Yes

## Management

User Management Interfaces	Cisco-Like CLI (Command Line Interface)
	Web-based Management
	SNMP v1, v2c, v3, RMON, Trap / Inform, Telnet
Management Security	HTTPs, SSH, Access Management
	RADIUS Client for Management
Upgrade & Restore	TFTP for Configuration Import / Export, TFTP for firmware update
	USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog
Diagnostic	Syslog, Port Mirror
DHCP	Client Mode, Server Mode, Relay Mode, Option 82
NTP	YES
System Status	Device info/status; Ethernet port status

## Power

Power Input	Redundant Power Input, Removable Terminal Block
Input Voltage Range	12-48 VDC
Reverse power protection	YES
Power Consumption	17 Watt

## Indicators

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

## Environmental and 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-60068-2-6, -27, -32
Certification Compliance	CE, FCC
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6, -8 (Level 3), IEC-61000-6-2, -4
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>100,000 hours

## Mechanical

Protection	IP30
Dimension	TBD
Weight	TBD
Installation	DIN-Rail Mount, Wall mount
Relay Output	1A, 24VDC

## Dimension Diagram

## Ordering Information

Available Models	Description	10/100/1000Mb TX	100/1000Mb FX	1G/10G FX
IS-DX620-4XG	Industrial 20 port Gigabit Layer 2 Managed Ethernet Switch, 4x 10G SFP+ Slot, -40~75°C	16	0	4
IS-DX620-8F-4XG	Industrial 20 port Gigabit Layer 2 Managed Switch, 8x 100/1000 SFP Slot + 4x 10G SFP+ Slot, Dual AC, -40~75°C	8	8	4

## Accessories

1. 100 Mb SFP Modules
2. Gigabit SFP Modules
3. 10 Gigabit SFP+ Modules
4. IS-RK2U 19" rack mounting kit
5. IS-RK4U 19" rack mounting kit

## Package Checklist

- IS-DX620 Switch
- Quick Installation Guide (Printed)
- Documentation & Software CD
- RS232 Console Cable
- RJ45 / SFP Cap / Wall Mount kit DIN-Rail kit