



- » Power failure, port break alarm by relay output
- » Redundant DC power inputs
- » Operating temperature from -40 to 75°C
- » DIN-Rail/Wall-mounting Installation
- » Rugged Design with 6KV surge protection
- » Support Storm Control
- » Support IEEE 802.3az
- » Support 9K Jumbo Frame

4-port Gigabit PoE+ and 2 Gigabit SFP Industrial PoE Switch

Introduction

ISX-40E2F is an Industrial 6-port Gigabit PoE Switch, the switch equips with 4-port 10/100/1000M RJ45 PoE+ and 2-port Gigabit SFP open slot. The 4 PoE+ ports are IEEE 802.3at compliant which supports up to 30W per port. The switch has dual redundant power input and the built-in smart alarm function when power failure or port break. The switch has a wide operating temperature, IP30 aluminum case, DIN-rail and wall-mounting installation kit.

Redundant Power Inputs

ISX-40E2F provides two power inputs that can be connected simultaneously to live DC power source. If one of the power input fails, the other live source acts as a backup to automatically support the ISX-40E2F's power needs.

Auto-Negotiation

Every port can automatically sense if the connected network devices are running at 10Mbps, 100M, 1000Mbps and Half/Full-Duplex mode, and adjust accordingly.

Auto-MDI/MDI-X

Every port can automatically sense your type of cable, so there is no need for crossover cables whether you are connecting this switch to another switch or to a computer.

Rugged Design

ISX-40E2F is designed for harsh environmental conditions. With its rigid aluminum enclosure and 6KV surge protection design, which not only protect the surge from the DC in port, but also the RJ-45 ports. By using ISX-40E2F, it will make your network more reliable regardless of the bad weather outside.

Storm Control

A broadcast storm control mechanism prevents the packets from flooding into other parts of the network. ISX-40E2F has an intelligent switch engine to prevent Head-of-Line blocking problems on per-CoS basis for each port.

Energy Efficient Ethernet

Ethernet is the most ubiquitous networking interface in the world; virtually all network traffic passes over multiple Ethernet links. However, the majority of Ethernet links spend much of the time idle, waiting between packets of data, but consuming power at a near constant level. Energy Efficient Ethernet (EEE) provides a mechanism and a standard for reducing this energy usage without reducing the vital function that these network interfaces perform.

Specification

INTERFACE		
10/100/1000M RJ45 Ports		4
1000BaseSX/LX Port		2
SYSTEM PERFORMANCE		
Packet Buffer		128KB
MAC Address Table Size		2K
Switching Capacity		12Gbps
Forwarding Rate		8.93Mpps
POE FEATURES		
IEEE 802.3 af/at		IEEE 802.3 af/at
Number of PSE Ports		4
PoE Budget		30W per port, 120W per unit
Max System Power Consumption		7W
Power Feeding Detecting Capability on PD		•
PD Classification		•
L2 FEATURES		
Auto-negotiation		•
Auto MDI/MDIX		•
Flow Control (duplex)	802.3x (Full)	•
	Back-Pressure (Half)	•
Jumbo Frame		9K
MECHANICAL		
Input Voltage		44~57 VDC, redundant inputs
Power Input		1 Removable 6-pin Terminal Block
Dimension (H*W*D)		120 x 55 x 108 mm
Weight		0.62KG
LED		PW1, PW2, ALARM, PoE Status and Link/Act, SFP5 & SFP6
DIP Switch		Switch 1~6: Port 1~6 disconnect alarm Switch 7: Power input alarm
Operating Temperature		-40 to 75°C
Storage Temperature		-40 ~ 85°C
Operating Humidity		5~95% (non-condensing)
INDUSTRIAL STANDARD		
Alarm Contact		1 relay output with current carrying capacity of 1A @ 24 VDC
Reverse Polarity Protection		•
Casing		IP30, Aluminum Alloy case
EMI		EN55032 Class A, IEC61000-3-2, IEC 61000-3-3, FCC Part 15 Class A
EMS		IEC61000-4-2 (ESD) Lv.4 IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge)Lv.5: Line to Line 4KV, Line to Ground 6KV at DC-In Line to Ground 6KV at RJ-45 ports, IEC61000-4-6 (CS) IEC61000-4-8 IEC61000-4-11
Shock		IEC60068-2-27
Free Fall		IEC60068-2-32
Vibration		IEC60068-2-6
Installation		DIN-Rail mounting or Wall mount (Optional)
STANDARD		
IEEE 802.3 – 10BaseT		•
IEEE 802.3u - 100BaseTX		•
IEEE 802.3ab - 1000BaseT		•
IEEE 802.3z 1000BaseSX/LX		•
IEEE 802.3af Power over Ethernet (PoE)		•
IEEE 802.3at Power over Ethernet (PoE+)		•
IEEE 802.3az - Energy Efficient Ethernet (EEE)		•
IEEE 802.3x - Flow Control		•