



Industrial Unmanaged Ethernet Switch



User's Manual

(POE Optional)

1, Introduction:

The industrial Ethernet Switch is a cost-effective solution and meets the high reliability requirements demanded by industrial applications.

1.1 High-Speed Transmissions

The Industrial Ethernet Switch including 10/100Mbps and 10/100/1000M bps , The RJ-45 interface can also be auto-detected, so MDI or MDI-X is automatically selected and a crossover cable is not required, All Ethernet ports have memory buffers that support the store-and-forward mechanism, This assures that data is properly transmitted

1.1.2 Dual Power Input

The industrial Ethernet Switch offer redundant power input design is with power reserve protection to prevent the switch device broken by wrong power wiring.

1.3 Flexible Mounting

The industrial Ethernet Switch is extremely compact (42 x 158 x 118 mm) and can be mounted on a DIN-rail or a panel, so it is suitable for any space-constrained environment.

1.4 Advanced Protection

The industrial Ethernet switch supports up to 3,000 VDC surge protection for power line, and also supports 4000V ESD for each port.

1.5 Wide Operating Temperature

The operating temperature of the industrial Ethernet Switch is between -40°C ~ 85°C With such a wide range, you can use the Ethernet Switch in some of the harshest industrial environments that exist

2, Features:

2.1 Physical Port

SPEC	DATA RATE	FIBER PORTS	UTP PORTS
1FX+ 1UTP	10/100/1000M	1* FIX/SFP	1* UTP
1FX+ 2UTP	10/100/1000M	1* FIX/SFP	2* UTP
1FX+ 4UTP	10/100/1000M	1* FIX/SFP	4* UTP
2FX+ 2UTP	10/100/1000M	2* FIX/SFP	2* UTP
2FX+ 4UTP	10/100/1000M	2* FIX/SFP	4* UTP
1FX+ 8UTP	10/100/1000M	1* FIX/SFP	8* UTP
2FX+ 8UTP	10/100/1000M	2* FIX/SFP	8* UTP
5UTP	10/100/1000M		5* UTP
8UTP	10/100/1000M		8* UTP
16UTP	10/100/1000M		16* UTP

2.2 Features

- Supports full/half duplex flow control
- Supports store and forward transmission
- Supports auto-negotiation
- Supports MDI/MDI-X auto crossover
- Provides surge protection (EFT) 3,000 VDC for power line
- Supports 4,000 VDC ESD protection for Ethernet
- Supports +10 ~ 55 VDC power input(Non-POE)
- Supports +48 ~ 55 VDC power input(POE)
- Provides flexible mounting: DIN-rail, Wall Mounting
- Supports operating temperature from -40°C ~ 85°C

3, LED Function

When 10/100M Non-POE

LED	Color	Description
PWR	Green	Power input is active
FX1	Green	Fiber port is connected
	Blink	Data transmission enable
FX2(If have)	Green	Fiber port is connected
	Blink	Data transmission enable
TP (1 to 8)	Green	UTP port is connected
	Blink	Data transmission enable

When 10/100M with POE

LED	Color	Description
PWR	Green	Power input is active
FX1	Green	Fiber port is connected
	Blink	Data transmission enable
FX2 (If have)	Green	Fiber port is connected
	Blink	Data transmission enable
TP (1 to 8)	Green	UTP port is connected
	Blink	Data transmission enable
	Yellow	Lit means with POE

When 10/100/1000M Non-POE

LED	Color	Description
PWR	Green	Power input is active
FX1	Green	Fiber port is connected
	Blink	Data transmission enable
FX2 (If have)	Green	Fiber port is connected
	Blink	Data transmission enable
TP (1 to 8)	Green	UTP port is connected
	Blink	Data transmission enable
	Yellow off	Data is 10/100Mbps
	Yellow	Data is 10/100/1000Mbps

When 10/100/1000M with POE

LED	Color	Description
PWR	Green	Power input is active
FX1	Green	Fiber port is connected
	Blink	Data transmission enable
FX2 (If have)	Green	Fiber port is connected
	Blink	Data transmission enable
TP (1 to 8)	Green	UTP port is connected
	Blink	Data transmission enable
	Yellow	Lit means with POE

4, Power Link



P+1 P- P+2

+ - +

The power terminal block support 2 power supply. When Non-POE power support 10~55VDC. When with POE support 48~55VDC.

You can two different power supply. For example: P+1 ,P- link 48VDC + and -, P+2, P- link 24VDC + and -.

5, Installation

You can also mount our Industrial Ethernet Switch on a standard DIN-rail by below steps.

The DIN-rail kit is screwed on the industrial switch when out of factory. If the DIN-rail kit is not screwed on the industrial switch, please screw the DIN-rail kit on the switch first.

First, hang the Ethernet Switch to the DIN-rail with angle of inclination. See figure 5.1

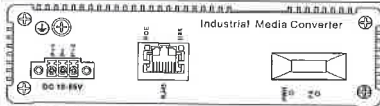
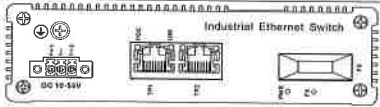
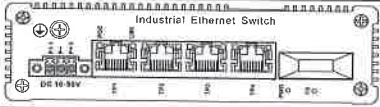
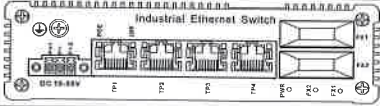
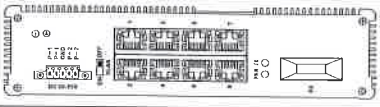

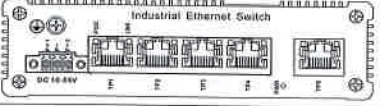
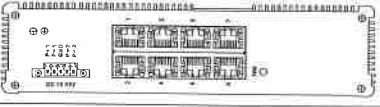


Figure 5.1: Installation to DIN-rail Step1



Figure 5.2: Installation to DIN-rail Step 2

6. Industrial Front Panel

1FX+ 1UTP	 The diagram shows the front panel of an Industrial Media Converter. It features a DC 12-24V power input on the left, a central RJ45 port labeled 'E', and a BNC connector on the right. The panel is labeled 'Industrial Media Converter' at the top.
1FX+ 2UTP	 The diagram shows the front panel of an Industrial Ethernet Switch. It features a DC 12-24V power input on the left, two RJ45 ports labeled 'E' and 'F', and a BNC connector on the right. The panel is labeled 'Industrial Ethernet Switch' at the top.
1FX+ 4UTP	 The diagram shows the front panel of an Industrial Ethernet Switch. It features a DC 12-24V power input on the left, four RJ45 ports labeled 'E', 'F', 'G', and 'H', and a BNC connector on the right. The panel is labeled 'Industrial Ethernet Switch' at the top.
2FX+ 4UTP	 The diagram shows the front panel of an Industrial Ethernet Switch. It features a DC 12-24V power input on the left, four RJ45 ports labeled 'E', 'F', 'G', and 'H', and a BNC connector on the right. The panel is labeled 'Industrial Ethernet Switch' at the top.
1FX+8UTP	 The diagram shows the front panel of an Industrial Ethernet Switch. It features a DC 12-24V power input on the left, eight RJ45 ports labeled 'E' through 'L', and a BNC connector on the right. The panel is labeled 'Industrial Ethernet Switch' at the top.
2FX+ 8UTP	 The diagram shows the front panel of an Industrial Ethernet Switch. It features a DC 12-24V power input on the left, eight RJ45 ports labeled 'E' through 'L', and a BNC connector on the right. The panel is labeled 'Industrial Ethernet Switch' at the top.
5UTP	 The diagram shows the front panel of an Industrial Ethernet Switch. It features a DC 12-24V power input on the left, five RJ45 ports labeled 'E' through 'I', and a BNC connector on the right. The panel is labeled 'Industrial Ethernet Switch' at the top.
8UTP	 The diagram shows the front panel of an Industrial Ethernet Switch. It features a DC 12-24V power input on the left, eight RJ45 ports labeled 'E' through 'L', and a BNC connector on the right. The panel is labeled 'Industrial Ethernet Switch' at the top.