

USR-ISF016P Specification



USR-ISF016P

16-port 10/100BASE-TX Industrial Ethernet Switch



Slim Type with more Practicability and Convenience

USR-ISF016P is a hardened 16-port Industrial Ethernet Switch, providing non-blocking wire-speed performance in harsh industrial environments. It also provides 16-port 10/100BASE-TX RJ45 copper interfaces delivered in an IP40 rugged, strong case with a redundant power system. Its slim case is suitable for such applications as surveillance system deployments, control management and wireless service in climatically demanding environments with a wide temperature range from -40°C to 85°C.

The USR-ISF016P series provides the flexibility to all kinds of 10/100Mbps Ethernet Media on RJ-45 port and performs highly stable fiber performance.

The USR-ISF016P series is packaged in a compact IP40 case that allows either DIN rail or panel mounting to have efficient usage of cabinet space. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 48V DC to 57V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Interface

- 16-port 10/100Base-Tx RJ-45 with auto negotiation and auto-MDI/MDI-X function
- 16 port with 802.3af/at POE+ (port 1 to port 16)

Industrial conformance

- 48V to 57V DC, redundant power input
- -40°C to 85°C operating temperature
- IP40 Aluminum housing
- Supports 6KV DC Ethernet ESD protection
- Supports 6KV DC EFT protection for power line
- Free Fall, Shock and Vibration Stability
- DIN-rail and wall-mountable hardware design

Specifications:

Model No.	USR-ISF016P
10/100BASE-TX Port	16 port RJ-45 auto-MDI / MDI-X
POE port	16 port with IEEE802.3af/at POE+ function (port 1 to port 16)
Performance Specification	Bandwidth: 1.6Gbps Packet Buffer Memory:1Mbit Packet Forwarding Rate:1.2Mpps MAC Address Table: 2K
Installation	DIN rail
Maximum Frame Size	9000bytes packet size
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Enclosure	IP40 aluminum housing
LED Indicator	Power: Red Ethernet: Yellow POE: Green
Power Input	48 to 57V DC redundant power
POE	POE standard : IEEE802.3af/at PoE ports: 1-16 port support PoE Power Output: 15.4 watts (IEEE 802.3af) Max. 30 watts (IEEE 802.3at) Power Pin Assignment:1/2+;3/6- Power Type: End-span(Mid-span optional)
Power Consumption	3 watts max
Surge protection	±4KV
Network Protocols	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u;100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x;
Network cables	10BASE-T: Cat3,4,5 UTP(≤100 meter)

	100BASE-TX: Cat5 or later UTP(≤ 10 meter) 1000BASE-TX: Cat6 or later UTP(≤ 100 meter)
Industry Standard	FCC CFR47 Part 15,EN55022/CISPR22, Class A IEC61000-4-2 (ESD): ± 8 kV (contact), ± 12 kV (air) IEC61000-4-3 (RS): 10V/m (80~1000MHz) IEC61000-4-4 (EFT): Power Port: ± 4 kV; Data Port: ± 2 kV IEC61000-4-5 (Surge): Power Port: ± 2 kV/DM, ± 4 kV/CM; Data Port: ± 2 kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)
MTBF	>300,000hours
Dimensions (W x D x H)	175.6*135*45.5mm
Weight	Product Weight: 0.36KG Packing Weight: 0.46KG
Working Environment	Working temperature: $-40\sim 85^{\circ}\text{C}$; Storage temperature: $-40\sim 85^{\circ}\text{C}$ Relative Humidity: 5%~95 % (no condensation)

Dimensions

