



8*10/100Base Fast Ethernet Industrial Unmanaged Ethernet Switch

OVERVIEW:

The SUI-A3 Series Ethernet switches are designed to operate in industrial environments at the edge of the network. On the factory floor, the SUI-A3 Series will provide flawless communications when you need it most. The SUI-A3 Series is a switch with the flexibility of eight Ethernet ports that may be configured in various combinations of copper and fiber optic interfaces. Flexibility is the main feature of the SUI-A3 Series, it may be DIN rail, Panel or Rack mounted, and comes with power options to match the applications that require a tough, industrial, Ethernet switch.

FEATURES:

- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- 2048 MAC addresses; 768K bits buffer memory
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- Alarms for power failure by relay output
- Redundant power inputs with Terminal Block or DC Jack
- -20°C to 60°C (-4°F to 140°F) operating temperature range
- Industrial aluminum case; Supports DIN-Rail, Panel or Rack Mounting installation

SPECIFICATIONS:

Technology

Standards:

- IEEE802.3 10Base-T, IEEE802.3u
100Base-TX/100Base-FX, IEEE802.3x

Forward and Filtering Rate:

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory:

- 768K bits

Processing Type:

- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Address Table Size:

- 2048 MAC addresses

Latency:

- Less than 7.1μs

Power

Input:

- Input Voltage: 12 to 30VDC (Terminal Block); 12VDC (DC Jack)

Power Consumption:

- 13.2W Max. 1.1A@12VDC, 0.55A@24VDC

Power Supply References:

- Terminal Block: 12 to 24VDC, 1.5A
- DC Jack: 12VDC, 3A

Reverse Polarity Protection:

- Present

Mechanical

Casing:

- Aluminum case
- IP30

Dimensions:

- 50mm (W) x 125mm (D) x 135mm (H)

- (1.97" (W) x 4.92" (D) x 5.31" (H))

Weight:

- 0.8Kg (1.76lbs.)

Installation:

- DIN-Rail, Panel, Rack Mounting

Interface

Ethernet Port:

- 10/100Base-TX: 8, 6 or 4 ports
- 100Base-FX: 0, 1, 2 or 4 ports

LED Indicators:

- Per Unit: Power Status (Power 1, Power 2)
- Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)

Alarm Contact:

- One relay output with current 1A @ 24VDC

Environment

Operating Temperature:

- -20°C to 60°C (-4°F to 140°F)

Storage Temperature:

- -40°C to 85°C (-40°F to 185°F)

Ambient Relative Humidity:

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO:

- Manufactured in an ISO9001 facility

Safety:

- UL60950-1, EN60950-1, IEC60950-1

EMI:

- FCC Part 15, Class A
- EN61000-6-3
 - EN55022
 - EN61000-3-2
 - EN61000-3-3

EMS:

- EN61000-6-2

- EN61000-4-2 (ESD Standards)

Contact: + / - 4KV; Criteria B

Air: + / - 8KV; Criteria B

- EN61000-4-3 (Radiated RFI Standards)
10V/m, 80 to 1000MHz; 80% AM Criteria A

- EN61000-4-4 (Burst Standards)

Signal Ports: + / - 4KV; Criteria B

D.C. Power Ports: + / - 4KV; Criteria B

A.C. Power Ports: + / - 4KV; Criteria B

- EN61000-4-5 (Surge Standards)

Signal Ports: + / - 1KV; Line-to-Line; Criteria B

D.C. Power Ports: + / - 0.5KV;

Line-to-earth; Criteria B

A.C. Power Ports: + / - 2KV; Line-to-earth; Criteria B

- EN61000-4-6 (Induced RFI Standards)

Signal Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A

D.C. Power Ports: 10Vrms @ 0.15~80MHz;

80% AM Criteria A

A.C. Power Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A

- EN61000-4-8 (Magnetic Field Standards)

30A/m @ 50, 60Hz; Criteria A

- EN61000-4-11 (Voltage Dip Standards)

A.C. Power Ports: 30% Reduction for 0.5 period; Criteria B

Environmental Test Compliance:

- IEC60068-2-6 Fc (Vibration Resistance)

5G @ 10~150KHz, Amplitude 0.35mm

(Operation/Storage/Transport)

- IEC60068-2-27 Ea (Shock)

25G @ 11ms (Half-Sine Shock Pulse; Operation)

50G @ 11ms (Half-Sine Shock Pulse;

Storage/Transport)

- IEC60068-2-32 Ed (Free Fall)

1M (3.281ft.)

ORDERING INFORMATION:

SUI-A3008	8*10/100TX Industrial Unmanaged Ethernet Switch; -20°C to 60°C
SUI-A3108-M-SC	8*10/100TX + 1*100FX(Multi mode; SC; 2Km) Industrial Unmanaged Ethernet Switch; -20°C to 60°C
SUI-A3108-S-SC20	8*10/100TX + 1*100FX(Single mode; SC; 20Km) Industrial Unmanaged Ethernet Switch; -20°C to 60°C

TYPES OF 100FX:

Designation	Typical Distance*	Nominal Wavelength	Cable Type	Connector	Optical Budget
100Base-FX	2 Km	1310 nm	62.5/125 MM	ST	15 dB
100Base-FX	2 Km	1310 nm	62.5/125 MM	SC	15 dB
100Base-FX	20 Km	1310 nm	10/125 SM	ST	19 dB
100Base-FX	20 Km	1310 nm	10/125 SM	SC	19 dB
100Base-FX	40 Km	1310 nm	10/125 SM	ST	30 dB
100Base-FX	40 Km	1310 nm	10/125 SM	SC	30 dB
100Base-FX	60 Km	1310 nm	10/125 SM	ST	33 dB
100Base-FX	70 Km	1310 nm	10/125 SM	SC	34 dB
100Base-FX	80 Km	1550 nm	10/125 SM	ST	29 dB
100Base-FX	90 Km	1550 nm	10/125 SM	SC	32 dB

MM: Multi mode

SM: Single mode

INSTALLATION TYPE:

DIN Rail (mounting kit is included)

POWER CONNECTOR:

Terminal Block