SUI-A1 series

16 * 10/100Base extended temperature Unmanaged Industrial Ethernet Switch

OVERVIEW:

The SUI-A1 series Ethernet switches are designed to operate in the harsh environments at the edge of the network. The SUI-A1 series functions at temperatures ranging from -40℃ to75℃ and is tested for functional operation @ -40℃ to 85℃, whether on the factory floor or the street corner, the SUI-A1 series will provide flawless communications when you need it most. The SUI-A1 series is a switch with the flexibility of sixteen 10/100TX Ethernet ports that may be configured in various combinations of copper and fiber optic interfaces. It provides fourteen 10/100TX copper ports plus two 100FX ports. Flexibility is the main feature of the SUI-A1 series, it may be DIN rail or panel mounted

FEATURES:

- Complies with **NEMA TS1 & TS2** Environmental requirements for Traffic control equipment
- Complies with **IEC61000-6-2** EMC Generic standard immunity for Industrial environment
- 4096 MAC addresses
- 1.625M 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 12 ~ 48VDC Power inputs or 12VDC Jack
- -40℃ to 75℃ (-40℉ to 167℉) operating temperature range
- Rugged aluminum case
- Supports DIN-Rail, Panel 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:

- **1.625M bits**

Processing Type:

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

Address Table Size:

- **4096 MAC addresses**

Power

Input:

- **Input Voltage: 12 to 48VDC (Terminal Block) ;12VDC (DC Jack)**

Power Consumption:

- **8.4W Max , 0.7A @12VDC, 0.35A@24VDC,0.175A@48VDC**

Power Supply references:

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

Reverse Polarity Protection:

- Present

Mechanical

Casing:

- Aluminum case
- IP30

Dimensions:

- 75.5mm (W) x 110mm (D) x 135mm (H)
  (2.98" (W) x 4.33" (D) x 5.31" (H))

Weight:

- 0.87Kg (1.92lbs.)

Installation:

- DIN-Rail, Panel Mounting

Interface

Ethernet port:

- 10/100Base-TX: 16, 15 or 14 ports
- 100Base-FX: 0, 1 or 2 ports

LED Indicators:

- Per Unit: Power Status (Power1, Power2, Power3)
- Per Port: 10/100TX, 100FX: Link/Activity

Alarm Contact:

- One relay output with current 1A@24VDC

Environment

Operating Temperature:

- -40℃ to 75℃ (-40℉ to 167℉)

Storage Temperature:

- -40℃ to 85℃ (-40℉ to 185℉)

Ambient Relative Humidity:

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO:

- Manufactured in an ISO9001 facility

Safety:

- UL508, 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)
    Enclosure Contact: + / - 4KV; Criteria B
    Enclosure Air: + / - 8KV; Criteria B
  - EN61000-4-3 (Radiated FRI Standards)
    Enclosure Ports: 10V/m, 80 to 1000MHz; Criteria A
  - EN61000-4-4 (Burst Standards)
    Enclosure Ports: +/- 4KV @ 2.5KHz; 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-earth; 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: 10V @ 0.15 – 80MHz; Criteria A
    D.C. Power Ports: 10V @ 0.15 – 80MHz; Criteria A
    A.C. Power Ports: 10V @ 0.15 – 80MHz; Criteria A
    Earth Ground Ports: 10V @ 0.15 – 80MHz; Criteria A
  - EN61000-4-8 (Magnetic Field Standards)
    Enclosure Ports: 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 (Vibration Resistance)
  5*g* @ 150Hz; Criterion 3 (Operation/Storage/Transport)
- IEC60068-2-27 (Shock)
  25*g* @ 11ms (Half-Sine Shock Pulse; Operation)
  50*g* @ 11ms (Half-Sine Shock Pulse; Storage/Transport)
- IEC60068-2-32 (Free Fall)
  1M (3.281ft.)

SUI-A1 series

ORDERING INFORMATION:

SUI-A1016E	16 * 10/100TX unmanaged Ethernet Switch
SUI-A1115E-M-SC	15 * 10/100TX + 1 * 100FX(multi mode, SC 2Km) unmanaged Ethernet Switch
SUI-A1115E-S-SC20	15 * 10/100TX + 1 * 100FX(single mode, SC 20Km) unmanaged Ethernet Switch

POWER INPUT INTERFACE:

Terminal Block & DC Jack

INSTALLATION TYPE:

Din Rail (mounting kit is included).