



8*10/100Base Unmanaged extended temperature PoE Ethernet Switch

OVERVIEW:

The SUK-A0 series is a PoE switch, designed to operate in the harsh environments at the edge of the network. The SUK-A0 series functions at temperatures ranging from -40°C to 75°C (-40°F to 167°F) and is tested for functional operation @ -40°C to 85°C (-40°F to 185°F). Whether on the factory floor or the street corner, the SUK-A0 series will provide flawless communications when you need it most. The SUK-A0 series is a Switch with the flexibility of eight Ethernet ports, 4 of which are PoE, that may be

configured in various combinations of copper and fiber optic interfaces. Flexibility is the main feature of the SUK-A0 series, it may be DIN- Rail, Panel, or Rack mounted, and comes with Terminal Block and Power Jack power inputs to match the applications that require a tough, environmentally Hardened Ethernet Switch.

Port 1 ~ port 4 on SUK-A0 series supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE) and can detect an IEEE802.3af compliant Powered Device (PD). Using external 48VDC power inputs through Terminal Block or Power Jack, data and power can be transmitted to a Powered Device (PD) over the same twisted-pair Ethernet cable through port 1 ~ port 4 on SUK-A0 series.

FEATURES:

- Complies with **NEMA TS1 & TS2** Environmental requirements for Traffic control equipment
- Complies with **IEC61000-6-2** EMC Generic standard immunity for Industrial environment
- Supports **IEEE802.3af** Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- 1024 MAC addresses
- 1M bits buffer memory
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- Alarms for power and port link failure by relay output
- Redundant power inputs with Terminal Block and DC Jack
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- Hardened aluminum case
- Supports DIN-Rail, Panel Mounting installation

SPECIFICATIONS:

Technology

Standards:

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

Forward and Filtering Rate:

- 14,880pps for 10Mbps

- 148,810pps for 100Mbps

Packet Buffer Memory:

- 1M bits

Processing Type:

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

full-duplex flow control

Address Table Size:

- 1024 MAC addresses

Power

Input:

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

Power Consumption:

- 72W Max. 1.5A@48VDC

Power Supply References:

- Terminal Block: 48VDC, 2.5A
- DC Jack: 48VDC, 2.5A

Overload Current Protection:

- Present

Reverse Polarity Protection:

- Present

Mechanical

Casing:

- Aluminum case
- IP30

Dimensions:

- 68mm (W) x 110mm (D) x 135mm (H)
- (2.68" (W) x 4.33" (D) x 5.31" (H))

Weight:

- 1Kg (2.2lbs.)

Installation:

- DIN-Rail, Panel Mounting

Interface

Ethernet Port:

- 10/100Base-TX: 8, 7 or 6 ports
- 100Base-FX: 0, 1 or 2 ports

LED Indicators:

- Per Unit: Power Status (Power 1, Power 2, Power 3)
- Per Port: 10/100TX, 100FX: Link/Activity

Alarm Contact:

- One relay output with current 0.1A @ 24VDC

Environment

Operating Temperature:

- -40°C to 75°C (-40°F to 167°F)
- Tested @ -40°C to 85°C (-40°F to 185°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:

- 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)
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:

SUK-A0008E-P4	8*10/100TX Unmanaged extended temperature PoE Ethernet Switch
SUK-A0107E-M-SC-P4	7*10/100TX + 1*100FX (Multi mode; SC; 2Km) Unmanaged extended temperature PoE Ethernet Switch
SUK-A0107E-S-SC20-P4	7*10/100TX + 1*100FX (Single mode; SC; 20Km) Unmanaged extended temperature PoE Ethernet Switch

POWER INPUT INTERFACE:

Terminal Block & DC Jack

INSTALLATION TYPE:

DIN Rail (mounting kit is included)