

Cleerline Industrial Switch

1 x SFP to 4 x RJ45 Gigabit Switch with PoE+



Convert from fiber to Ethernet with the SSF-1x4POE-RUGGED, a 4 port Gigabit Ethernet 10/100/1000Base-TX to 1000Base-X non-managed Industrial Ethernet PoE+ PSE Switch. Offering PoE+ (30W per port), with a total power budget of 120W, this switch is a strong solution for extreme environments.

The unit's case is rated for use in temperatures from -40 to +75°C. Additionally, the rugged metal housing's IP40 rating allows the SSF-1x4POE-RUGGED to operate in mechanical and electric extremes.

This switch has 6kV surge protection per port and is complaint with IEC and EN standards for industrial grade equipment.

External power supply required.



FEATURES AND BENEFITS

- DC power input block 48-52V
- Extreme operating temperature: -40 to 75°C
- Rugged IP40 rated metal casing, DIN rail bracket
- Store and Forward switching mechanism
- Reversed power polarity protection
- Auto-Negotiation & Auto MDI/MDI-X on every RJ45 port
- Supports 6kV surge protection per port on all TP ports
- Supports IEEE 802.1Q Tag VLAN pass thru
- Redundant DC power inputs on every model
- 120W total PoE power budget: 30W 802.3af/at per port

OPERATION & DETAILS

Operating Temperature	-40 ~ 75°C
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP40 Protection
Dimensions	88 x 35 x 120mm (D x W x H)
Weight	0.42kg
Installation Mounting	DIN Rail mounting or wall mounting
Power Supply	External power supply required

APPLICATION EXAMPLE



PART NUMBER	DESCRIPTION
SSF-1x4POE-RUGGED	4x 10/100/1000Base-Tx & 1x 1000Base-X SFP Non-managed Industrial Switch with 120W of PoE+ PSE, Extreme Temp. (-40~75 Celsius)

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SPECIFICATIONS

GENERAL		POWER, ALARM, TERMINAL BLOCK	
IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE 802.3ab 1000Base-T and 1000Base-X Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure	Reverse Polarity Protection	Present
Switch Architecture	Back-plane (Switching Fabric): 20 Gbps	Overload Current Protection	Present
Data Processing	Store and Forward	Power Supply	Redundant Dual DC 48V (48~52VDC) Input power (Removable Terminal Block)
Flow Control	IEEE 802.3x flow control, back pressure flow control	PoE Specs	PoE+ PSE device: IEEE 802.3af/at, up to 30W per port 120W total PoE budget
Provides Broadcast Storm Protection	Present	Power Consumption	<125W (at full PSE capacity)
MAC Address Table	4K	Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A@24VDC, NC
Packet Buffer Size	1MB	Removable Terminal Block	Provide 2 Redundant power, Alarm relay contact, 6 Pin
Ports	4 x RJ-45 1 x 1000Base-X SFP slot 10/100/1000Base-TX auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex	RATINGS	
Network Cable	10Base-T: 2-pair UTP/STP Cat.5 cable 100Base-TX: 2-pair UTP/STP Cat. 5 cable 1000Base-T: 4-pair UTP/STP Cat. 5e cable EIA/TIA-568 100-ohm (100m)	EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A EN61000-6-4 – Emission for industrial environment
Protocols	CSMA/CD	EMS	EN61000-6-2 – Immunity for Industrial environment EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (Magnetic Field) Level 3, Criteria A
LED	Per unit: PWR (Green) LNK/ACT (Green - Fiber port status and activity) Per Port: Link/Active (Green), Speed/100 (Yellow)	Traffic Control	NEMA-TS2
		Rail Traffic	EN50121-4
		Shock	IEC 60068-2-27
		Freefall	IEC 60068-2-32
		Vibration	IEC 60068-2-6
		MTBF	120,000Hrs
		Warranty	2 years

DIMENSIONS

