

Industrial POE 10/100/1000Base-TX to 1000Base-FX Media Converter, SC12FPIAG



The SC12FPIAG series is Industrial POE Media Converter. It is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, etc. In addition to transmitting data, the twisted-pair injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. SC12FPIAG Power over Ethernet Powered Device is IEEE 802.3af/at compliant.

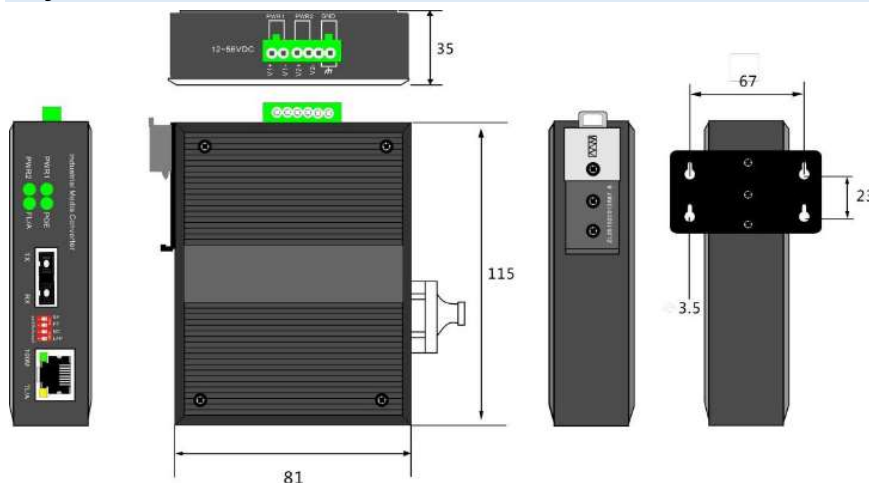
The SC12FPIAG series is designed to extend the distance of a network by converting Giga Ethernet data from twisted pair cable to 1000FX multi-mode or single-mode fiber-optic cable and operating distance from 550m to 120km depending on different model. It can be installed on DIN-rail or wall-mount, allowing users to deploy any mix of network conversions required

SC12FPIAG features optional 1000X SFP fiber Port for any kind of MSA-complaint pluggable 1.25Gbps SFP transceivers. The SC12FPIAG series converters are fully compatible with long packets, enabling them to be used in modern networks.

Features

- UTP with POE to fiber media converter
- IEEE 802.3af/at compliant
- RJ45 support auto MDI/MDI-X function Auto-negotiation speed, half/full-duplex
- Store-and-forward & Cut-through (optional)
- Support wide operating temperature (-40 to +85°C)
- Wide-range redundant power design (12 to 56VDC) **48V DC for PoE applications**
- Reverse polarity protection for Power Input
- Overload current resettable fuse present
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- IP-40 Ingress protection
- DIN-Rail and Wall-Mounted Installation

Physical



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Application



Technical Specifications

Standards	IEEE802. 3 10BaseT, IEEE802. 3u 100BaseT(X), IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX standards
	IEEE802. 3x Flow control
	IEEE 802. 3af/at POE
Processing Type	Store and Forward
Back Plane	4 Gbps
Performance	
MAC Address Size	1K
Packet Buffer Size:	1Mbit
Time Delay	<10us
Frame	1536 bytes
Copper Port	
Data Rate	10/100/1000M
Connector	RJ45
Distance	100m
Fiber Port	
Data Rate	1000FX
Connector	SC as default, FC/ST/SFP Optional
Distance	MMF=550m/2km, SMF =20/40/80/100/120km
LED indicators	PWR1:ON=Power Connected
	PW R2:ON= Power Connected
	FL/A: ON=Fiber Connected, Active = Data Transmitting
	TL/A: ON=Copper Connected, Active= Data Transmitting
	1000M: ON=1000M Data Rate Transmitting
	POE: ON=Power Working, Off =No Power

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Power	Input Voltage:12 to 56VDC, Redundant Power input 48V DC for PoE Function
	Power Consumption : ≤5W
	PoE Budget : 15. 4W (PoE) 30W (PoE+)
	Protection : Overload Current, Reverse Polarity
	Connector : Terminal Block
Environment	Operating Temperature : -40°C to +85°C
	Storage Temperature : -40°C to +95°C
	Relative Humidity : 5-95% (no condensation)
Physical Characteristics	
Housing:	IP40 Protection, Aluminium Alloy
Installation :	DIN-rail mounting, wall mounting (with optional kit)
Dimension:	115*81*35mm
Weight	0. 30kg (device)

Standards and Certifications tested for

EMC	CE
EMI	FCC Part15 CLASS A
	IEC 61000-4-2Level4(8K/15K)
	IEC 61000-4-3Level3(10V/m)
EMS	IEC 61000-4-4Level3(1V/2V)
	IEC 61000-4-5Level3(4KV/2KV)
	IEC 61000-4-6Level3(10V/m)
	IEC 61000-4-8Level4(30A/m)
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-320. 5m
Vibration	IEC 60068-2-6
Railway Traffic	EN50121-4

Ordering Information : SC12FPIA G S/M/S000 SC/ST

SC12FPIA : Industrial Grade PoE Media Converter

G : Gigabit support

S : SFP option

For Fixed Fiber Option

M/S000 : M is Multimode 550m, 850nm.

: S000, S is Singlemode, 000 is distance in Km. 020 is by default

SC/ST : Connector types

NOTE : 48V DC Power supply has to be provided by user or to be ordered separately