

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.

SC12FPIAG also features optional 1000X SFP fiber Port for any kind of MSA-compliant pluggable 1.25Gbps SFP transceivers. The SC12FPIAG G 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
- 1000/100FX configuration by DIP Switch
- 10/00/1000 RJ45 support Auto MDI/MDI-X function Auto-negotiation speed, Half/Full-duplex
- LFPT function, easy maintenance and troubleshooting
- 8K MAC & 10K Jumbo frames
- Wide-range redundant power design (12 to 56VDC) **48V DC for PoE applications**
- Reverse polarity protection for Power Input
- 6KV Surge protection on Data & Power
- Provide EFT protection for Power line
- Support 8/15KV ESD protection
- IP-40 Ingress protection
- DIN-Rail and Wall-Mounted Installation

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	8K
Packet Buffer Size:	1Mbit
Time Delay	<10us
Packet Length	10K bytes Jumbo frames
Interface	
Copper Port	
Data Rate	10/100/1000M
Connector	RJ45
Distance	100m

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Fiber Port	
Data Rate	1000FX
Connector	SC as default, ST/1.25G SFP Optional
Distance	MMF=550m/2km, SMF =20/40/80/100/120km
DIP Switch	LFPT and 100FX setting
LED Indicators	PWR1, PWR2, FX, Link/Ack, PoE
Power	Input Voltage:12 to 56VDC, Redundant Power input 48V DC for PoE Function
	Power Consumption : ≤5W
	PoE Budget : 15. 4W (PoE) 30W (PoE+)
	PoE Pin assignment 1/2(+), 3/6(-)
	Protection : Overload Current, Reverse Polarity
	Connector : Terminal Block
Environment	Operating Temperature : -40°C to +85°C
	Storage Temperature : -40°C to +85°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		IEC 61000-4-6Level3(10V/m)
EMI	FCC Part15 CLASS A		IEC 61000-4-8Level4(30A/m)
	IEC 61000-4-2Level4(8K/15K)		
	IEC 61000-4-3Level3(10V/m)	Shock	IEC 60068-2-27
	IEC 61000-4-3Level3(10V/m)	Free fall	IEC 60068-2-320. 5m
EMS	IEC 61000-4-4Level3(1V/2V)	Vibration	IEC 60068-2-6
	IEC 61000-4-5Level3(4KV/2KV)	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