

Industrial Grade Gigabit Media Converter, Model SC12FEISG AE



SC12FEISG AE Series Industrial Gigabit Ethernet to Fiber Converter provide media conversion between 10/100/1000 BASE-T(X) and 100/1000 BASE-(F)X (available in both SC and SFP fiber connectors). SC12FEISG AE Series comes with a DIP switch to configure or enable the more advanced functions including the Fiber speed, Fiber Auto negotiation, Link fail pass-through, Terminal/center device, Power saving, Jumbo frame, and Cut-through forwarding to reach the maximum flexibility.

Features

- Cut-Through Forwarding Mode
- Available in both SC and SFP Fiber Connectors
- Redundant Power Input
- Jumbo packets up to 9K bytes
- Link Fault Pass-Through (LFP) and Link Loss Carry Forward
- Operating Temperature : -10°C to 70°C

Technical Specifications

Technology

Standards

IEEE 802.3 for 10BASE T

IEEE 802.3u for 100BASE-T(X) and 100BASE-FX

IEEE 802.3ab for 1000BASE-T(X)

IEEE 802.3z for 1000BASE-X

Interface

RJ45 Ports : 10/100/1000Base-T(X) Auto negotiation speed

Fiber Ports : 100/1000BASE-(F)X or SFP Slot

LED Indicators: PWR1, PWR2, CT-TML, F_Mode, Fx_Link, LLCF_ON, Test, Tx_LLCF, Fx_LLCF

DIP Switch : Media Converter mode, Speed mode, Link Transparency, TS-1000 Terminal / Center mode, Power Save, Fiber Auto Negotiation, Jumbo Frame, Cut-through

Power Management

Input Voltage : 9-48 VDC

Input Current Max : 0.3A @ 9VDC

Connector : Removable 5-pin Terminal Block

Reverse Polarity Protection Present

Physical Characteristics

Housing Metal : IP30 protection

Dimensions : (W x H x D) 32mm x 90mm x 110mm

Weight : 330g

Installation : DIN-Rail, Wall-Mount (optional kit)

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Connecting. Converting. Leading !

Environmental Limits

Operating Temperature : -10°C ~ 70°C
Storage Temperature : -40°C ~ 85°C
Ambient Relative Humidity : 5 to 95%, 55°C (non-condensing)

Optical Fiber Specifications

Mode	Multi-mode	Single-mode
Distance	550M	10KM
Bit Rate	1250Mbps	1250Mbps
Wavelength (nm)	850	1310
Application	1000Base-SX	1000Base-LX
Tx Power (dBm)	-9.5 to -4	-9.5 to -3
Rx Sensitivity (dBm)	< -18	< -20

Regulatory Approvals tested fir

Safety CB (IEC62368-1/EN62368-1)
EMC
FCC Part 15, Subpart B, Class A
EN55032
EN61000-6-4
EN 61000-3-2
EN 61000-3-3
EN 55024
EN 61000-6-2

Product Ordering Code : SC12FEISG M/SXXX/S AE

SC12FEISG : Base Code for Industrial Grade Gigabit Media COnverter
M/SXXX/S : M is Multimode
: SXXX is Single mode. XXX is Km. 010 is default
: S is SFP
AE : Fixed