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Connecting. Converting. Leading !

**Industrial grade Fiber to Ethernet Media Converter. Model SC12FEIS**



SC12FEI is a **Industrial grade** 10/100Base-TX to 100Base-FX unmanaged standalone media converter. It enables you to mix legacy twisted-pair to a fiber-optic backbone and optimize total cost of ownership allowing trouble free & robust process of Data conversion

Both Multi-mode and Single mode Fiber options are available. These units will automatically tailor themselves to convert both Half or Full duplex Ethernet signals, depending on your specific network needs



**Features**

- 1 Ethernet Port, 1 Fiber port
- 10 / 100 Mbps
- Auto Crossover for MDI/MDIX in TP port
- Store and forward Switching mechanism
- Broadcast Storm
- Flow Control on Full Duplex
- Back Pressure on Half Duplex
- Full or Half-Duplex
- LLF / LFPT

**Specifications**

<b>Standard</b>	IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX standards				
	IEEE 802.3x Flow Control & Back Pressure				
<b>OPTICAL PORT</b>		<b>Multimode</b>		<b>Single Mode</b>	
	Wavelength (nm)	850	1310	1310	1550
	Distance (Km)	0 to 2	0 to 5	0 to 10/ 60	40/60 to 120
	Transmit Power ( dbm)	-5 to -18	-5 to -18	-12 to 2	-12 to 2
	Sensitivity ( <dbm)	-28	-32	-35	-35
	Optical Saturation (dBm)	-3	-3	-3	-3
	Optical Loss (dBm/Km)	-3	0.5	0.4	0.25
	Fiber Cable (µm)	50/62.5-125, 100 / 140		8.3, 8.7, 9, 10/125	
	Connector	SC, ST, FC			
	Data Rate	155M			
<b>Ethernet Port</b>	Data Rate	10/100 Mbps			
	Throughput	148810 pps			
	MAC Address	1K			
	Buffer	288Kb			
	Backplane	400Mbps			
	Connector	RJ45			
	Isolation	3KV Magnetic			
<b>Power</b>	Power	9 to 48V DC, 175 mA @ 24V. 3 Pin screw type terminal			
	Wattage	4.5 W			
	Reverse Polarity Protection	YES			
	Overload Protection	Yes			

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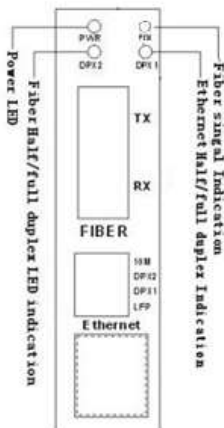


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<b>Operating Conditions</b>	Temperature Operating	-40 to 85°C
	Temperature Storage	-55 to 125 °C
	Humidity	5 to 95% non condensing
	MTBF	357,000 hrs
<b>Mechanicals</b>	Mounting	DIN Rail
	Dimensions (mm)	28*99*78 (W*H*D)
	Weight	360g
	Indications	As per diagram below
	Class	IP30

**Product Selection Code : SC12FEIS M/SXXX SC/ST**

Base Model : SC12FEIS  
M/SXXX : M : Multimode, S : Single Mode, XXX = 020, 040, 080, 100Kms (For Singlemode)  
SC / ST : SC = SC Connector, ST = ST Connector



SW no	ON/OFF	Function
1	OFF	Ethernet at 100M
	ON	Ethernet at 10M
2	OFF	Fiber Port, full duplex mode
	ON	Fiber Port, half duplex mode
3	OFF	Ethernet at full duplex mode
	ON	Ethernet at half duplex mode
4	OFF	LFP Disable
	ON	LFP Enable

**Approvals : CE & LVD Safety**

- EN 55022:2010+AC:2011
  - Conducted Emissions
  - Radiated Emissions
- EN61000-4-18:2007+A1:2010
  - 61000-4-2 Electrostatic Discharge
  - 61000-4-3 RF Electromagnetic Field
  - 61000-4-4 Fast Transients
  - 61000-4-5 Surges
  - 61000-4-6 Continuous RF Disturbance
  - 61000-4-8 Power Frequency Magnetic Field
  - 61000-4-10 Damped Magnetic Oscillations
  - 61000-4-11 Voltage DIP : Not Applicable
  - 61000-4-18 Damped Oscillatory Wave
- EN 60950-1: 2006+A11:2009+A1:2010+A12:2011+A2:2013
- EN 55024:2010+A1:2015
- EN 61000-4-10:1993+A1:2001