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### Datasheet for Industrial Grade Ethernet to Fiber Media Converter, Model SC12FEIG N



San Telequip SC12FEIG N Industrial Media Converter uses Store-Forward architecture, fanless and energy-saving design. The product is small, convenient and easy to maintain. The product design complies with the Ethernet standard, adding Lightning protection, Anti-static protection measures. It has operating temperature from -40°C to +85°C with stable and reliable performance. The device can be widely applied to Intelligent Transportation, Telecommunications, Security, Power, Water etc.,

- ✓ 1 \* 10/100/1000Mbps Auto-negotiation, Auto-MDI-MDI-X Ethernet Port
- ✓ 1 port 1000Mbps Fiber port
- ✓ 10/100/1000Mbps-Full/Half-duplex
- ✓ Automatic MAC Address learning
- ✓ Supports Broadcast Storm Control
- ✓ Transmission data packet:1518 bytes
- ✓ IP40 protection
- ✓ Redundant dual DC power inputs
- ✓ 6KV port Lightning protection
- ✓ -40°C to +85°C operating temperature range

### Specifications

Interface	1x10/100/1000Base-T Ethernet port + 1x 1000Mbps Optical port
Network Protocols	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u, 100 Base-TX/FX, IEEE802.3ab 100Base-T, IEEE802.3z 100Base-X, IEEE802.3x
Network Media	10BASE-T : Cat3, 4, 5 UTP(≤100 meter) 100BASE-TX : Cat5 or later UTP(≤100 meter)
Fiber Media	Multi-mode : 2KM Single-mode : 20/40/80KM Interface : SC/SFP
Performance Specification	Bandwidth :10Gbps Packet Buffer Memory :1M 10 Mbps Packet Forwarding Rate :14880 pps/port 100Mbps Packet Forwarding Rate :148800 pps/port 1000Mbps Packet Forwarding Rate :1488000 pps/port MAC Address Table :8K Forwarding Delay <4us
Forwarding Mode	Store-and-Forward
Protection	6KV Lightening protection, IP40 protection
LED Indicators	Power : PWR, FDX, Link/Act
Power Supply	Input Power :12 to 48VDC (Terminal Block) Input Power :2*12 to 48VDC (Dual Redundancy) Working Consumption :<5W Connectors : 6 Pin Screw type terminal block

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Other Specifications	
Working Environment	Working temperature : -40 to +85°C Storage temperature : -45 to +85°C Relative Humidity : 5% to 95 % (no condensation)
Industry Standard tested for	FCC CFR47 Part 15, EN55022/CISPR22 Class A EMS : IEC6100-4-2 (ESD) : ±8kV (contact), ±15kV (Air) IEC6100-4-3 (RS) : 10V/m (80MHz-2GHz) IEC6100-4-4 (EFT) : Power Port : ±4kV, Data Port : ±2kV IEC6100-4-5 (Surge) : Power Port : ±2kV/DM, ±4kV/CM, Data Port : ±2kV IEC6100-4-6(CS) : 3V (10kHz-150kHz), 10V (150kHz-80MHz) IEC6100-4-16 (Common mode conduction) : 30V (cont.), 300V (1s) IEC (EN) 61000-4-8 IEC 60068-2-27(Shock) IEC 60068-2-32(Freefall) IEC 60068-2-6(Vibration)
Enclosure	IP40
Installation	DIN-Rail or Wall mounts
MTBF	300,000 hours
Weight & Size	Weight : 0.36KG (H×D×W) : 118mm× 86mm× 39mm

**Ordering Code : SC12FEIG S M/SXXX SC/ST N**  
 SC12FEI : Industrial Grade Media Converter  
 G : Giga Ethernet  
 S : SFP ( If SFP is slected then no other Fiber specs can be selected )  
 M / S : M : Multimode, S : Singlemode.  
 XXX : Distance in Km, 20, 40, 80 Km. 20 km as default in Singlemode  
 SC/ST : Connector type SC/ST  
 N : Fixed

e.g. SC12FEIG S020 SC N  
 SC12FEIG S N