

Stand-alone Fast Ethernet Media and Rate Converter 10/100Base-TX to 100Base-FX

The SBFTF Series is a stand-alone media converter that provides an interface between 10/100Base-TX ports and 100Base-FX ports, allowing users to integrate fiber optic cabling into 10/100 copper environments. Operating at Layer 2, the data link layer, this converter not only converts copper to fiber, it also provides rate conversion allowing legacy 10Base-T copper devices to connect to 100Base-FX fiber.



SBFTF1014-105

Key Features

- Auto-Negotiation
- Auto-MDI/MDIX
- Link Pass Through
- Far-End-Fault (FEF) Detection
- Automatic Link Restoration Extend network distance up to 120km
- Bridging devices will provide conversion and integration solutions for half and full-duplex environments
- 10 Mbps or 100 Mbps on TP port
- Half or full-duplex on all ports including fiber

Specifications

| | |
|------------------------|--|
| Standards | IEEE 802.3 |
| Data Rate | 10 Mbps; 100 Mbps, Layer 2 |
| Filtering Addresses | 1K MAC addresses |
| Filtering & Forwarding | 14,880 pps for Ethernet; Rate 148,800 pps for Fast Ethernet |
| RAM Buffers | 512 KB |
| Max Packet Size | 2044 bytes untagged; 2048 bytes tagged |
| Switches | SW1 (TP): Auto-Negotiation On/Off SW2 (TP): Half or Full-duplex with Auto-Negotiation Off SW3 (TP): 10 Mbps or 100 Mbps with Auto-Negotiation Off SW4 (Fiber): Half or Full-duplex SW5: Link Pass Through On/Off SW6: Far-End-Fault (FEF) On/Off |
| Status LEDs | PWR (Power): ON = connection to external power FD (Fiber Duplex): ON=Full-duplex; Off=Half duplex LNK/ACT (Fiber Link/Activity): ON=Link; Blinking=Activity CD (Copper Duplex): ON = Full-duplex; Off = Half-duplex LNK/ACT (Copper Link/Activity): ON = Link; Blinking = Activity 100 (Copper): Off = 10 Mbps; ON = 100 Mbps |
| Dimensions | Width: 3.25" [82.55 mm] Depth: 4.8" [121.92 mm] Height: 1" [25 mm] |
| Power Consumption | External AC/DC; 12 VDC, 0.8A min |
| Environment | Operating: 0°C to 50°C Humidity: 5% to 90% (non-condensing) Altitude: 0 – 10,000 ft. |
| Weight | 2 lbs. [0.90 kg] |
| MTBF | Greater than 41,660 hours (MIL-HDBD-217F) Greater than 114,580 hours (Bellcore7 V5.0) |
| Certifications | Safety: Wall Mount Power Supply: UL Listed; FCC Class A, VCCI Class 1, CISPR22/EN55022 Class A, EN55024, EN61000, CE Mark |
| Warranty | Lifetime |

Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU, Ex: SBFTF1011-105-NA

-NA = Country Code

- NA = North America
- EU = Europe
- SA = South Africa
- OZ = Australia
- LA = Latin America
- UK = United Kingdom
- JP = Japan
- BR = Brazil

Ordering Information

SBFTF1011-105

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (ST) [2 km/1.2 mi.] Link Budget: 11.0 dB

SBFTF1013-105

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (SC) [2 km/1.2 mi.] Link Budget: 11.0 dB

SBFTF1039-105

10/100Base-TX (RJ-45) 100 m/328 ft.] to 100Base-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB

SBFTF1014-105

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 16.0 dB

SBFTF1040-105

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-X SFP Slot (empty)

Optional Accessories (sold separately)

SFP Modules

Wide Input (24 - 60 VDC) Power Supplies

SPS-2460-PS

Piggy Back Power Supply

SPS-2460-SA

Stand-Alone Power Supply

Mounting Options (sold separately)

E-MCR-05

12-slot Media Converter Rack

RMS19-SA4-02

4-slot Media Converter Shelf

WMBD

DIN Rail Bracket 5" [127 mm]

WMBD-F

DIN Rail Bracket (flat) 3.3" [84 mm]

WMBL

Wall Mount Bracket 4" [102 mm]

WMBV

Vertical Wall Mount Bracket 5" [127 mm]