

# SBFTF Series

## Stand-alone Fast Ethernet Media and Rate Converter

### 10/100Base-TX to 100Base-FX



SBFTF1014-105

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 integrated 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.

## 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): 10Mbps 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]
Compliance	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
- LA = Latin America
- EU = Europe
- UK = United Kingdom
- SA = South Africa
- JP = Japan
- OZ = Australia
- 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

### SBFTF1019-105

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1310nm single mode (LC) [20 km/12.4 mi.] Link Budget: 17.3 dB

### SBFTF1040-105

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

## Single Fiber Products

### SBFTF1029-105

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1310nm TX/1550nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB

### SBFTF1029-106

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1550nm TX/1310nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 19.0 dB

### 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

#### 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]