stand-alone media converter

# SBFTF1010-130

**10/100**

## Fault-Tolerant Redundant Link Protector

## Features

▸ Fault-tolerant redundant connections

▸ Easy to install and use

▸ Supports half and full-duplex transmission

▸ AutoCross™ on all 3 ports [

▸ Auto-Negotiation

▸ IEEE 802.3 compliant
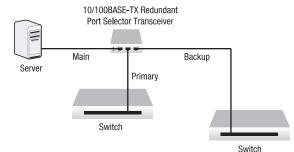
▸ Nine diagnostic LEDs

▸ Optional 3-port switch mode

The Redundant Link Protector is a 10/100 Ethernet fault-tolerant transceiver. It significantly reduces network downtime, adding a new level of redundancy to 10/100 Ethernet connections. It also provides a redundant path for critical 10/100 devices. In a 10/100 Ethernet network, a critical device such as a file server may be connected to the rest of the network through a hub or a switch. A common problem in this configuration is that the server is often connected to the network through a single cable. If the cable fails, then the server is disconnected from the rest of the network. Similarly, if a port of a hub or switch to which the server is connected fails, the server is disconnected from the network.

The Redundant Transceiver has three ports: one for the critical (main) device, one for the default (primary) path for the critical device, and another (backup) for the backup path. It is a smart device that will not send any signal on a path that is inactive. If the primary path loses its link, then the transceiver will switch to the backup path in approximately 189 milliseconds.

When the primary path re-establishes its link, the Redundant Link Protector will automatically switch back to the primary path.

Optional functionality, controlled via a dip switch, allows the unit to move from the fault-tolerant mode to a 3-port switch mode.

## Fault-Tolerant Redundant Connections



10/100BASE-TX Redundant Port Selector Transceiver

Server    Main    Backup

Primary

Switch

Switch

## Specifications

| | |
|---|---|
| Standards | IEEE Std. 802.3 |
| RJ-45 Connectors | Type: 8-position, RJ-45 receptacle:<br>1: TX+          5: NC (no connection)<br>2: TX-          6: RX-<br>3: RX+          7: NC (no connection)<br>4: NC (no connection)     8: NC (no connection) |
| Dip Switches | **SW1:** Auto-Negotiation Enable/Disable<br>**SW2:** 10/100 Mbps<br>**SW3:** Full/Half Duplex<br>**SW4:** Redundancy/Switch |
| System LEDs | **Power (PWR):** Indicates the presence of POWER<br>**Primary (PRI):** Indicates a link is established on the Primary port<br>**Backup (BKP):** Indicates the link has moved over to the Backup port |
| Per Port LEDs | **Lower Right:**<br>Green indicates 100 Mbps;<br>Orange indicates 10 Mbps;<br>Flashing indicates Activity<br>**Lower Left:**<br>Green indicates full-duplex; Off half-duplex |
| Dimensions | **Width:** 3.25" [82 mm]<br>**Depth:** 4.8" [122 mm]<br>**Height:** 1.0" [25 mm] |
| Power | **Domestic**<br>Input: 120 VAC @ 60 Hz.<br>Output: 12 VDC, 0.5 Amp<br>**International**<br>Input: 100 – 240 VAC @ 50 Hz.<br>Output: 12 VDC, 1.25 Amp |
| Operating temperature | 0 – 50°C (32°F – 122°F) |
| Storage temperature | -15°C – 65°C (-5°F – 149°F) |
| Relative humidity | 5% – 95% |
| Altitude | 0 – 10,000 ft. |
| Shipping Weight | 2 lbs. [0.90 kg] |
| Safety Compliance | **Wall Mount Power Supply:**<br>UL Listed & CSA Certified |
| Regulatory Compliance | FCC Class A, EN55024, UL 60950, CE Mark |
| Warranty | Lifetime |

## Ordering Information

**SBFTF1010-130**
10/100BASE-TX Link Protector Transceiver (3) 10/100BASE-TX (RJ-45) **[100 m/328 ft.]**

**Optional Accessories** (sold separately)

**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-SA4-01**
4-Slot Media Converter Shelf

**WMBD**
DIN Rail Bracket 5.0" [127 mm]

**WMBD-F**
DIN Rail Bracket (flat) 3.3" [84 mm]

**WMBL**
Wall Mount Bracket 4.0" [102 mm]

**WMBV**
Vertical Wall Mount Bracket 5.0" [127 mm]

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