



see also: POTS 2-wire Point System™ Slide-In-Module Media Converter

stand-alone network interface device

Stand-Alone

# SAPTF33xx-1xx

## POTS 2-Wire Copper to Fiber Media Converter



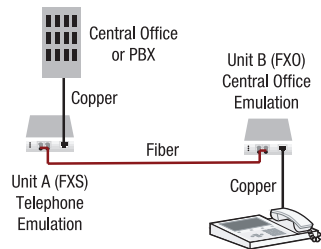
### Features

- ▶ Audio Transmission
- ▶ Caller ID
- ▶ Automatic Ring Down
- ▶ Duplex or Single Fiber Options

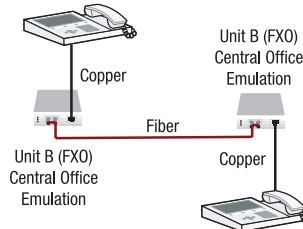
Connect central-office voice grade signals to distant Plain Old Telephone equipment (POTS) utilizing standard telephone signaling. Two units are required to implement an end to end system. Unit A connects to a telephone line or PBX and has the ability to detect ringing voltages and to act as a telephone (LINE SIDE FXS). Unit B is the reciprocal unit and has the ability to act as a Central Office and connects to a telephone device (CUSTOMER SIDE FXO).

Devices must be used in pairs. Typical installation will include a chassis card [CAPTF, ] installed in the Point System™ locally and a stand-alone device installed at the remote location.

### Loop Extender/Isolator



### Automatic Ring Down



### Specifications

|                           |  |
|---------------------------|--|
| Standards                 | FCC Part 68, TBR21   |
| Analog Port               | (Telephone Emulation or FXS)<br>Connector: RJ-11<br>Impedance: 600 ohms<br>REN: 0.48<br>Loop Current: 20 to 60 ma.<br>Insertion Loss: 0.0 +/- 1.0 dB at 1000 Hz when both ports are terminated at 600 ohms   |
| Analog Port               | (Central Office Emulation or FXO)<br>Impedance: 600 ohms<br>Battery Source: 48 VDC +/- 5V<br>Ringing Supply: 90 Vp-p<br>Ring Frequency: 15 – 25 Hz.<br>(Reproduces frequency detected by side A)<br>Ring Cadence: Reproduces cadence detected by side A<br>Insertion Loss: 1.0 +/- 1.0 dB @ 1000 Hz when both ports are terminated at 600 ohms |
| Voice Frequency           | 300 Hz – 3 KHz   |
| Switches/Optional Jumpers | Automatic Ring Down/Normal   |
| Status LEDs               | LED colors are Green<br>Fiber Link: ON indicates fiber link up;<br>In Use: ON indicates unit in use;<br>Flashing indicates ringing;<br>Power: ON indicates power is on   |
| Dimensions                |  |
| 105 Model:                | Width: 3.25" [82 mm]<br>Depth: 4.7" [119 mm]<br>Height: 1.0" [25 mm]   |
| 115 Model:                | Width: 3.7" [94 mm]<br>Depth: 4.7" [119 mm]<br>Height: 1.8" [46 mm]  |
| Power                     | External AC/DC provided; 12 VDC, 1.25A; unregulated; standard; UL Listed   |
| Environment               | 0 – 50°C Operating Temperature;<br>-25°C – 85°C Storage Temperature<br>5% – 95% humidity (non-condensing); 0 – 10,000 ft.  |
| Shipping Weight           | 2 lbs. [0.90 kg]   |
| Safety Compliance         | Wall Mount Power Supply:<br>UL Listed and CSA certified  |
| Regulatory Compliance     | FCC Class A; VCCI Class A; EN 55022 (CISPR 22)<br>Class A; ICES 003; CE Mark   |
| Warranty                  | Lifetime   |

### Ordering Information

**Line Side FXS: SAPTF3311-105**  
**Customer Side FXO: SAPTF3311-115**  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1300nm multimode (ST)  
 [2 km/1.2 mi.] Link Budget: 11.0 dB

**Line Side FXS: SAPTF3313-105**  
**Customer Side FXO: SAPTF3313-115**  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1300nm multimode (SC)  
 [2 km/1.2 mi.] Link Budget: 11.0 dB

**Line Side FXS: SAPTF3314-105**  
**Customer Side FXO: SAPTF3314-115**  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1310nm single mode (SC)  
 [20 km/12.4 mi.] Link Budget: 16.0 dB

**Line Side FXS: SAPTF3315-105**  
**Customer Side FXO: SAPTF3315-115**  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1310nm single mode (SC)  
 [40 km/24.9 mi.] Link Budget: 26.0 dB

**Line Side FXS: SAPTF3316-105**  
**Customer Side FXO: SAPTF3316-115**  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1310nm single mode (SC)  
 [60 km/37.3 mi.] Link Budget: 33.0 dB

**Line Side FXS: SAPTF3317-105**  
**Customer Side FXO: SAPTF3317-115**  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1550nm single mode (SC)  
 [80 km/49.7 mi.] Link Budget: 29.0 dB

### Single Fiber Products

Recommended use in pairs

**Line Side FXS: SAPTF3329-105\***  
**Customer Side FXO: SAPTF3329-115\***  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1310nm TX/1550nm RX single fiber  
 single mode (SC)  
 [20 km/12.4 mi.] Link Budget: 19.0 dB

**Line Side FXS: SAPTF3329-106\***  
**Customer Side FXO: SAPTF3329-116\***  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1550nm TX/1310nm RX single fiber  
 single mode (SC)  
 [20 km/12.4 mi.] Link Budget: 19.0 dB

**Line Side FXS: SAPTF3329-107\***  
**Customer Side FXO: SAPTF3329-117\***  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1310nm TX/1550nm RX single fiber  
 single mode (SC)  
 [40 km/24.9 mi.] Link Budget: 25.0 dB

**Line Side FXS: SAPTF3329-108\***  
**Customer Side FXO: SAPTF3329-118\***  
 Twisted Pair (RJ-11) [5 km/3.1 mi.]  
 to 1550nm TX/1310nm RX single fiber  
 single mode (SC)  
 [40 km/24.9 mi.] Link Budget: 25.0 dB

\*Note: Single Fiber products should be paired by application:

Loop Extender/Isolator Application  
 Line Side FXS: CAPTF3329-105  
 Customer Side FXO: CAPTF3329-116

Automatic Ring Down Application  
 Line Side FXS: CAPTF3329-107  
 Customer Side FXO: CAPTF3329-108

POTS 2-Wire Copper to Fiber