



SAPTF33xx-1xx

POTS 2-Wire Copper to Fiber Media Converter

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: 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

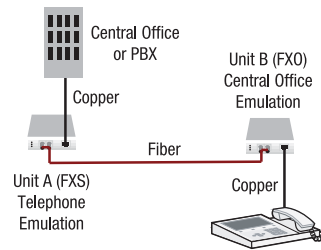
Line Side FXS: SAPTF3329-108*
Customer Side FXO: SAPTF3329-118*
 Twisted Pair (RJ-11) [5 km/3.1 mi.]
 to 1550nm TX/1310nm RX single fiber
 single mode (SC)
 [40 km/24.9 mi.] Link Budget: 25.0 dB

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

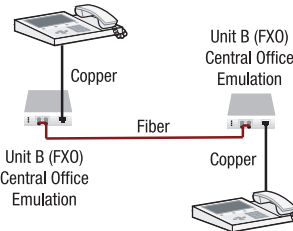
Loop Extender/Isolator Application
 Line Side FXS: CAPTF3329-101
 Customer Side FXO: CAPTF3329-116

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

Loop Extender/Isolator



Automatic Ring Down



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.

Specifications

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