

CAPTF Series

Point System™ POTS 2-Wire Media Converter Module

POTS 2-Wire Copper to Fiber



CAPTF3311-105

The CAPTF Series is a media converter module that provides an interface between a twisted pair RJ-11 port and a fiber port, allowing users to 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).

Features

- Audio transmission
- Caller ID
- Automatic Ring Down
- Dual or single fiber options
- SNMP Management
- Ringing at the distant end
- Electrical interface is provided through an RJ-11 female connector
- Field Upgradeable Firmware

Specifications

Standards	FCC Part 68 TBR21
Analog Port	Connector: RJ-11(Telephone Emulation or FXS) Impedance: 600 ohms (Central Office) REN: 0.48 Loop Current: 20 to 60ma. Insertion Loss: 0.0 +/-1.0 dB at 1000 Hz when both ports are terminated at 600 ohms
Emulation or FXO	Battery Source: 48 VDC +/- 5V Ringing Supply: 90Vp-p Ring Frequency: 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
Jumpers	Automatic Ring Down/Normal
Status LEDs	LED colors are Green SDF (Fiber Link): On indicates fiber link up; ACT (In Use): On indicates unit in use; Flashing indicates ringing; PWR (Power): On indicates power is on
Dimensions	105 Models: Width: 0.86" [22 mm] Depth: 5" [127 mm] Height: 3.4" [86 mm] 115 Models: Width: 1.75" [43 mm] Depth: 5" [127 mm] Height: 3.4" [86 mm]
Power Consumption	4 Watts (105 Models) 7 Watts (115 Models)
Environment	Environment specs are dependent on the chassis chosen Operating: 0°C to 50°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	1 lb. [0.45 kg]
Compliance	Safety: CISPR A, CE Mark Emissions: FCC Class A, VCCI Class A, EN 55022 (CISPR 22) Class A, ICES 003
Warranty	Lifetime

Ordering Information

Line Side FXS: CAPTF3311-105

Customer Side FXO: CAPTF3311-115

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: CAPTF3313-105

Customer Side FXO: CAPTF3313-115

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: CAPTF3314-105

Customer Side FXO: CAPTF3314-115

Twisted Pair (RJ-11) [5 km/3.1 mi.]
to 1310nm single mode (SC) [20 km/12.4 mi.]
Link Budget: 16.0 dB