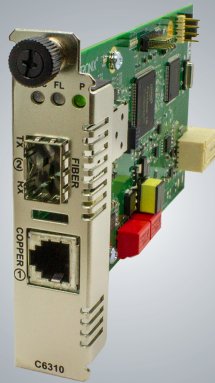# ION POTS MEDIA CONVERTER

POTS over Fiber

The ION C6310-3340 is a chassis-based 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. The first unit connects to a telephone line or PBX and is configured to act as a telephone (FXO Mode) and has the ability to detect ringing voltages. The second unit is the reciprocal unit and is configured to have the ability to act as a Central Office and connects to a telephone device (FXS Mode).

Together, the modules allow legacy analog phone lines to be extended over fiber for both permanent installations as well as temporary job-site installations.

Applications:

- Provides voice grade service to extend useful life of legacy analog telecom equipment
- Acts as a telephone and connects to a telephone line or PBX
- Acts as a central office and connects to a telephone device
- For use in permanent or temporary job-site installations

Markets:

Service Providers

Campuses

Hotel

Healthcare

LANTRONIX

Specifications

Standards

- FCC Part 68
- ETSI ES 203-021 (TBR21)
- ISED CS-03

Analog Port

- Connector: RJ11

FXS Mode

- Impedance: 600 ohms
- REN: 1.0
- Ring Cadence: 25 Hz

FXO Mode

- Impedance: 600 ohms
- Battery Source: 48 VDC +/- 5V
- Ringing Supply: 90Vp-p
- Ring Frequency: 16-65 Hz

Dip Switches

- SW1   Up = FXO   Down = FXS
- SW2   Up = Normal   Down = FXS Reversed
- SW3   Up = U-Law   Down = A-Law
- SW4   not used
- SW5 - SW8   Country Code Select

Status LEDs

- Pwr: On = power is on
- FL: On = fiber link is up
- ACTC: On = Off-Hook, Blink = Ringing, Off = On-Hook

Dimensions

- Width: 0.86" [22 mm]
- Depth: 6.5" [165 mm]
- Height: 3.4" [86 mm]

Power Consumption

- 2.0 Watts without the SFP

Environment

- Environment specs are dependent on the chassis chosen
- Operating: 0°C to 50°C
- Storage: -40°C to +85°C
- Humidity: 5% to 95% (non-condensing)
- Altitude: 0 – 10,000 ft.

Weight

- 1 lb. [0.45 kg]

Compliance

- Emissions: EN55032 Class A, FCC Part 15 Class A
- Immunity: EN55024
- Safety: CE Mark

Warranty

- Lifetime

Features

- Audio transmission of voice grade signals
- Supports ringing at distant end
- Supports Caller ID
- Configurable worldwide country formats
- Must be deployed in pairs
  - ION chassis card and stand-alone unit
  - ION chassis card and ION chassis card
  - Stand-alone unit and stand-alone unit
- Single product configurable to either FXO mode or FXS mode
- Automatic Ring Down supported when both converters are configured to FXS Mode
- SFP based product
  - Uses Gigabit Ethernet SFP Modules
  - Lantronix offers a wide variety of SFP modules to support multimode or single-mode fiber, as well as dual or single strand fiber installations
- SNMP Management supported when installed in a managed ION chassis
- Supports remote management of paired unit, in-band, over the fiber
- Electrical interface is provided through an RJ-11 female connector
- Field upgradeable firmware
- Only supports analog POTS lines
- Compatible with traditional telephone modems

Ordering Information

Part Number	Description
C6310-3340	Chassis Card Media Converter Twisted Pair (RJ-11) (5 km/3.1 mi.) to (1) SFP Slot (empty) *Fiber Type, Optical Wavelength, Transmission Distance, and Link Budget all based on selected SFP module.* *Must be paired with another C6310-3340 or a stand-alone S6310-3340.*

Accessories Number	Description
SFP Modules	C6310-3340 Supports any standard 1000Mbps SFP modules

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