SKU: 0110-0244

Category:

High Density Remote POTS (HD R-POTS)

The High Density Remote Plain Old Telephone Service (HD R-POTS) plug-in card is a 24-port, loop start subscriber termination card. With support for 24 subscribers per card, the HD R-POTS card dramatically increases the capability of the Tellabs 1000 HD CBA to support high-density applications.

Features

- TR-008 and GR-303 only
- Call Message Waiting Indicator (CMWI)
- Remote test access to metallic tip and ring
- 1830W loop length resistance (including station)
- 900 Ohm structural impedance
- Forward disconnect
- On-hook transmission (CLASS) capability
- Twenty-four (24) 2-wire circuits

Highlights

Ease of Operations

The HD R-POTS card has two LED indicators on the front panel. A green BUSY LED indicator, when lit, indicates that the HD R-POTS circuit is busy or is being tested and must not be removed from service. A flashing red FAIL LED indicates that there is illegal signalling on any one circuit. A red FAIL LED indicates that the unit has failed.

Mechanized Loop Testing

The HD R-POTS also supports multiple loop testing systems including Mechanized Loop Testing (MLT).

High Density Analog Voice

The HD R-POTS supports a loop length resistance of 1830 Ohms, ring cadence following, local ring trip, on-hook transmission between ring-bursts, and forward disconnect. The card supports Call Message Waiting Indicator (CMWI).

Specifications

LEDs

- Solid Red: Plug-in card failure
- Flashing Red: Illegal signalling on at least one circuit
- Green: At least one circuit is busy or being tested

Test and Measurement

- Remote test access to metallic tip and ring

Signaling

- On-hook detection threshold: > 9.0 kOhms
- Off-hook detection threshold: < 2.0 kOhms
- Open ckt. voltage – on hook transmission mode: 42.5 V minimum
- Open ckt. voltage – normal mode (battery -52 V): 44-46 Vdc minimum
- Loop current (constant): 25 mA, 20 mA minimum @ 1830 Ohms
- Maximum loop length including station: 1830 Ohms (for DC supervision)
- Ring trip delay (85 Vrms, 20 Hz): < 200 ms
- Ring trip detector (85 Vrms, 20 Hz): > 2000 Ohms
- Pulse distortion (pw > 25 ms): < 15 ms

• End to end signaling delay: < 50 ms

Audio

• Longitudinal balance: x > 58 dB (200 Hz – 1.0 kHz) and x > 53 dB @ 3.0 kHz
• Two wire return loss: ERL > 28 dB and SRL > 20 dB
• Maximum VF overload level: +5.0 dBm
• Total loss (DLC loss + cable loss @ 8 dB, 1000 Hz, 70Â°F), #22 AWG cable = 17.391 kft., #24 AWG cable = 13.699 kft. and #26 AWG cable = 10.830 kft.
• Nominal loss (referenced to 2-wire 900 W): -2.0 dBm Â3 0.5 dB
• Nominal input impedance: 900 Ohms + 2.16 ÃŽÂF
• Companding: ÃŽÂ-Law

Environmental

• Humidity: 5% – 95%, non-condensing
• Storage temperature: -40Â°C to +70Â°C (-40Â°F to +158Â°F)
• Operating temperature: -40Â°C to +65Â°C (-40Â°F to +149Â°F)

Physical

• Weight: 20 lbs (9.07 kg)
• Depth: 12.0 in (30.5 cm)
• Width: 19.0 in. (48.3 cm)
• Height: 12.25 in. (31.1 cm)

Compliance

• TR-008
• GR-1089-CORE
• GR-303-CORE

Software

• Minimum base software FP16 and higher

Management

• Craft User Interface (CUI)
• Tellabs Panorama Element Management System (EMS)