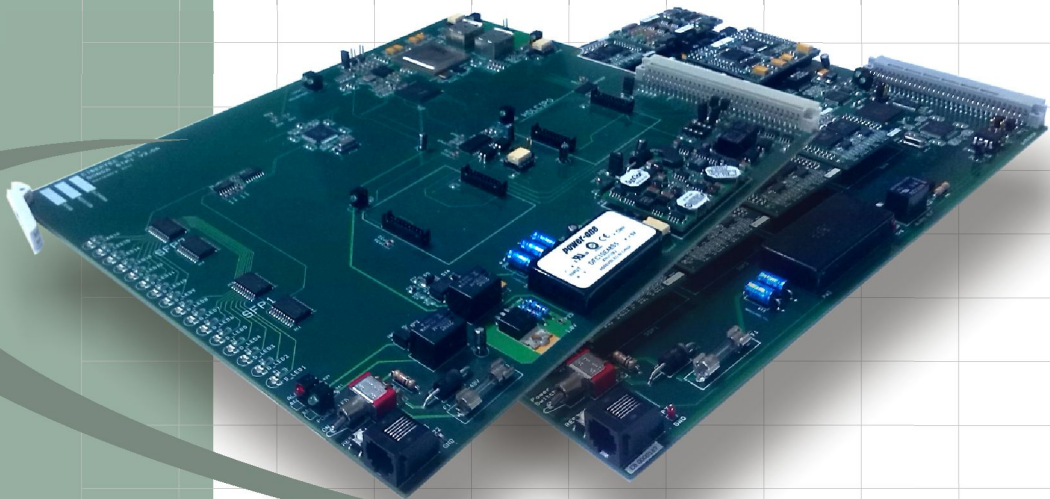


SONDA STM1-OC3

**Signaling and audio analysis of a STM-1 link,
both optical and electrical at 75/120 ohms**



The Probe SMT1-63 and its audio processing module DSP 63 enables the analysis of signaling and audio of a STM-1 link with interface both optical as electrical at 75 ohm.

The connection is made in high impedance without affecting the functionality of the link, independently of the Probe presence, or in intrusive mode with exterior ByPass.

The SONDA STM1-63 is connected to a Server using TCP/IP for the analysis of irregular traffic conditions in the Points of Interconnect (POI) between carriers. It works along the DSP 63 module for the analysis of secondary DTMF signaling in every audio channel within every E1 of the link.

It has the ability to process up to 64 bi-directional data links within the STM-1

+506 25240002

+506 22805957

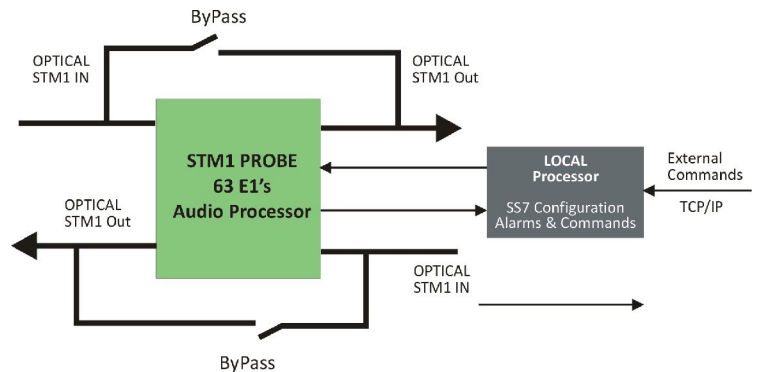
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www.cibertec.com

SONDA STM1-OC3

Signaling and audio analysis of a STM-1 link

Optical at 75/120 ohms



Technical Specifications

- Capacity: 2 STM-1 ports in monitor mode
- E1 ports: up to 63 E1 ports
- Form factor: 19" 6U
- Scalability: up to 6 SONDA STM1-63 cards can be installed in a 6U, 48.26cm (19") sub-rack
- Physical dimensions: 28.94cm (11.4") W x 23.34cm (9.19") H
- Power consumption: 1A / -48VDC
- Connectivity: Ethernet 10/100BaseT
- MSA-Compatible (Multi-Source Agreement) for SFP transceivers
- Operating temperature: 5° - 55° Celsius

Intrusion Commands, Rx, Tx or Both

- Silence
- Breaks
- Busy Tone
- Ring Back Tone
- Fax answering
- Noise
- DTMF
- Others

Optical interface

- Line speed: 155,52 Mbit/s
- Standard : ITU-T G.957 STM-1
- Line code : NRZ
- Light source : laser diode
- Connector type : LC
- Wavelength : 850 nm / 1310 nm / 1550nm depending on SFP used
- Range
 - o Multi-mode: up to 2 km
 - o Single-mode: up to 15 km
- TX Power: varies according to SFP used
- RX sensitivity: varies according to SFP used

Electrical interface

- Line speed : 155,52 Mbit/s
- Standard : G.703
- Impedance : 75 ohms
- Line code : CMI
- Connector type : mini coax DIN 1.0/2.3 (Type A & D)
- Attenuation: up to 12.7 dB at 78MHz
- Jitter: complies with ITU-T G.825

Standards Compliance

- G.703** STM-1 (155,52 Mbps) electrical interface compatible
- G.704** Synchronous frame structures used at 1544, 6312, 2048, 8448 and 44 736 kbit/s hierarchical levels
- G.706** Frame alignment and cyclic redundancy check (CRC) procedures relating to basic frame structures defined in Recommendation G.704
- G.707** Network node interface for the synchronous digital hierarchy (SDH)
- G.781** Synchronization layer functions
- G.783** Characteristics of Synchronous Digital Hierarchy (SDH) equipment functional blocks
- G.806** Characteristics of transport equipment Description methodology and generic functionality (supervision, fault management, performance monitoring)
- G.813** Timing characteristics of SDH equipment slave clocks (SEC)
- G.823** The control of jitter and wander within digital networks which are based on the 2048 kbit/s hierarchy
- G.825** The control of jitter and wander within digital networks which are based on the Synchronous Digital Hierarchy (SDH)
- G.829** Error performance events for SDH multiplex and regenerator sections
- G.957** Optical interfaces for equipments and systems relating to the synchronous digital hierarchy (Provides one standard STM-1 optical interface complying with G.957)