

SH 108-IB

Description

The **SH-108-IB** card allows to extend Ethernet/Fast Ethernet traffic between operator and customer on 1, 2 and 4 pairs of copper phone cable using SHDSL technology, offering 34Mbps with 4 pairs using TC-PAM 128 and can reach up to 60Mbps.

SH-108-IB has 2 interfaces, customer interface (Ethernet/Fast Ethernet port) and operator interface (1, 2 or 4 pairs of subscriber).

They are installed in pairs, in a master/slave configuration, allowing SNMP management in the entire Ethernet/Fast Ethernet link, from one of the extremes, from central (operator domain) through the Ethernet port of the SNMP controller of the TELNET MiniSAE chassis where the SH-108-IB master is inserted.

The line speed of each pair of subscriber is established only in the SH-108-IB master, adapting the slave to the speed set by it.

Operator's traffic and SNMP management frames share the subscriber's pairs, without dispatching the latter through the customer interface of the card (operator's privacy).

Measures of quality of service available (QoS, Roundtrip Latency, Packet Loss, Jitter, Throughput).

This card is suitable for configurations based on Spanning Tree protocol, since having no signal at their interface allows the automatic propagation of TX cuts between central and remote equipment.

Other features

SH-108-IB has other additional features such as manual cutting of TX in customer interface and quality measures to check the status of operator's interface configurable via SNMP, alarms' report (SNMP events) in real time (alarms of LOS/End LOS and remote computer shutdown among others), and remote upgradeable and reset.



Features

Access over telephone pair

Ethernet and Fast Ethernet access to IP/MPLS over conventional telephone cable.

G.SHDSL y G.SHDSL.bis compliant

Based on G.SHDSL technology, gets 2Mbps/pair using TC-PAM16 (Annex B) and 5.7 Mbps/pair symmetrical with TC-PAM32 (Annex G) for a distance of 2 Km.

Up to 60Mbps symmetrical with extended modulations

Also compatible with TC-PAM64 and TC-PAM128 getting up to 34Mbps symmetrical and the possibility of reaching the theoretical 60Mbps symmetrical with 4 pairs.

QoS Measures

Measures of Roundtrip Latency, Packet Loss, Jitter, Throughput.

In-Band Management

SH108-IB incorpora gestión en banda. Se instala por parejas según filosofía maestro/esclavo, permitiendo la total gestión SNMP del enlace desde central.

Demarcation Point

SH108-IB can act as a network and services termination point.

Compatible chassis

SH108-IB supports the chassis MiniSAE, TriSAE and MicroSAE

Technical Specifications

General Features

ITU-T G991.2 (2004) SHDSL (Annex B - TC-PAM16), SHDSL.bis (Annex G - TC-PAM32) and extended modulation (TC-PAM64 and TC-PAM128) compliant.

SHDSL — Ethernet Modem .

Allows to dispatch Ethernet and Fast Ethernet traffic through 2, 4 and 8 copper wires.

Total in-band management in master/slave configurations and via SNMP.

Flow control in the client interface to suit the different rates of the transmission media by Xon/Xoff frames.

Propagation of automatic TX cuts between central and remote equipment in the absence of signal.

Network and services termination point.

Has a management and measures of quality of service via SNMP (Roundtrip Latency Measures, Packet Loss, Jitter, Throughput).

Manually TX cuts in customer's interface and link test in operator's interface configurable via SNMP.

Alarms report (via SNMP) in real time.

Remote upgrades and Reset.

Optional CTC Firmware for crosstalk cancellation which increases the SNR margin, available on line, increasing the reach or the transmission rate.

Chassis Supported: MiniSAE, TriSAE, MetroSAE.



Interfaces

Customer's interface (LOCAL): Ethernet/Fast Ethernet port.

Operator's interface (PLANTA): 1, 2 or 4 copper pairs.

Management console's front interface.

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