

HSSI LIMs for High Speed Transport of ATM Cells

Introduction

The operational capabilities of an Xedge switch is determined in part by the slot controller in use and the number and type of associated line interface modules (LIMs). The Xedge HSSI LIMs provide two physical ports for the high-speed transport of ATM cells over a HSSI interface.

Two models of HSSI LIMs are available for use with their corresponding Xedge slot controller(s) in the Xedge switch. The HSSI-DCE LIM is intended for applications where the HSSI interface is timed from a local oscillator on the LIM. The HSSI-DTE LIM is used when the interface can only receive clock timing from an attached device, such as an inverse multiplexer. Both HSSI LIMs utilize the standard 50-pin HSSI connector.

- Xedge HSSI-DCE LIM is used with Xedge FRC.
- Xedge HSSI-DTE LIM is used with Xedge PCX or ACP.

Specifications

All physical and operational specifications apply to both HSSI LIMs, except where noted.

- Standards: EIA/TIA 612/613
- Interface: HSSI Serial I/O
- Connector Type: 50-pin HSSI
- Timing: Xedge HSSI-DTE recovers timing from attached device.
Xedge HSSI-DCE derives timing from a local oscillator on the LIM.

LIM Features

- Dual port HSSI serial I/O interface.
- Rates of up to 51.84 Mbps per interface
- Meets TIA/EIA 612/613 standards

Diagnostics & Alarms

Loopbacks

The HSSI LIMs support Local Loopback.

Status Indications

- IS (In Service)
- OS (Out of Service)
- LB (Loopback Active)
- TX (Transmit Data)
- RX (Receive Data)

Alarms & Performance

The HSSI LIMs support Loss Of Signal (LOS).

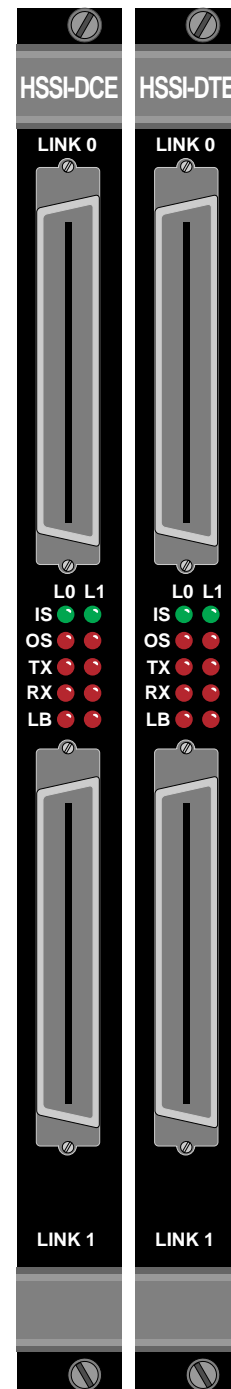


Figure 1: Front Panel of the Xedge HSSI-DTE or HSSI-DCE

