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 DS3-2C LIM provides two ports of DS3 circuit emulation for its slot controller. The LIM operates at 44.736 Mbs via two 75-ohm BNC connectors per port.

The Xedge DS3-2C is an enhanced clocking LIM that supports timing from three sources: the received clock, the system clock reference, and an internal oscillator on the LIM. In addition, the LIM can loop the receive clock back to the transmit clock and also propagate the derived clock across the midplane of the switch to provide a timing reference for other LIMs.

The Xedge DS3-2C LIM is used with the following Xedge slot controllers:
- Xedge PCX (Packet Cell Switch)
- Xedge PCL (Packet Cell Link)
- Xedge PCE (Packet Circuit Emulator)
- Xedge CE (Circuit Emulator)
- Xedge ACP (ATM Controller PDH)

Other slot controller and LIM combinations may also be supported in your network. Contact your GDC representative for more information.

LIM Features
- Dual port 44.768 Mbps interface
- For ATM and Circuit Emulation applications
- Comprehensive alarm reporting and performance monitoring
- Meets North American transmission standards

Specifications
- ANSI T1.102, T1.107, T1.646, ITU-T G.804, I.432, ATM Forum UNI 3.0/3.1, IISP, B-ICI 1.1
- Interface: DS3
- Connector Type: BNC 75 ohms
- Line Encoding: B8ZS
- Framing Options: PLCP, C-bit, Clear Channel
- Line Build Out: Short/Long
- Transmit Timing for PLCP sublayer: From received clock; internal oscillator; primary or secondary system reference (line of Node Timing Module)

INTENDED USE
The DS3-2C LIM installs behind its slot controller at the midplane connector to switch ATM cells at 44.768 Mbps, or to provide up to two ports of T-3 circuit emulation per controller. Up to two LIMs plug into a compatible slot controller at the rear panel of the Xedge chassis.

Diagnostics & Alarms

Loopbacks
The DS3-2C supports Transmit, Receive, and Payload Loopbacks.

Status Indications
- IS (In service)
- OS (Out of service)
- LB Rights during line loopback test
- RD Rcv Red Alarm (Loss of Frame)
- BL Rcv Blue Alarm (AIS)
- LS Loss Of Signal
- YL Receive Yellow Alarm (FERF)
- ER Rcv Line Error

Alarms & Performance
The DS3-2C supports the following physical layer alarms and performance monitoring stats:

Figure 1: Front Panel Features of Xedge DS3-2C LIM