

# ECTU

## ATM Fabric Card for the CNX-5™ T1 IMA Configuration

**THE ENHANCED CHANNEL TEST UNIT (ECTU)** is an ATM Fabric Card used in the T1 Inverse Multiplexing over ATM (IMA) configuration of the Ciena CNX-5 Broadband DSL system, a solution designed to DSL-enable Lucent SLC® Series 5 (SLC-5) Digital Loop Carriers. The ECTU replaces the legacy Channel Test Unit (CTU) to provide ATM switching, traffic management, and network interface functions, while preserving legacy CTU functionality. The simple, integrated approach of the CNX-5 Broadband DSL system, combined with its flexible network interface options, delivers the most cost-effective and scalable solution for providing DSL service to subscribers served by SLC-5 remote terminals.

The CNX-5 ECTU is a simple solution for broadband enabling all Ciena Enhanced Channel Units (ECUs) within the SLC-5. The ECTU is a full-featured ATM multiplexer that provides ATM switching in a compact footprint. Carrier-class performance is assured with advanced ATM service support, sophisticated traffic management capabilities and large buffering to meet a wide range of service requirements. Services are compatible with all AAL types, including full VC Quality of Service (QoS) (CBR, UBR, VBR-rt, VBR-nrt, and UBRmdcr) with overbooking and support for UNI 3.0, UNI 3.1, and TM 4.0. All bandwidth is available for active DSL subscribers and fairly allocated in accordance with ATM QoS priority and individual line rate.

The ECTU provides a Command Line Interface (CLI) that can be accessed locally or remotely. CatenaView™, a carrier-class Element Management System (EMS), is available for remote provisioning and management of DSL services, including F5 and physical loopback testing and performance statistics.

The ECTU constitutes a cost-effective and scalable solution. The ATM network interface is provided through a 4 port T1/IMA interface with up to 6.2 Mb/s of transport bandwidth. The four T1 ports are capable of operation with either a fiber multiplexer or direct copper backhaul, allowing maximum flexibility in the use of existing backhaul facilities. Subtending support enables additional flexibility and scalability.

### FEATURES & BENEFITS

- » Part of the CNX-5 Broadband DSL system for cost-effective delivery of splitterless POTS+DSL for Lucent SLC® Series 5 DLCs
- » Simple card replacement for Lucent SLC-5 legacy CTU with preservation of legacy CTU functionality
- » Full-featured ATM multiplexer in a compact footprint
- » Four T1/IMA ports capable of operation with fiber multiplexer or direct copper connections
- » Advanced ATM service support, sophisticated traffic management capabilities, and large buffering
- » All bandwidth allocated fairly to active subscribers in accordance with QoS priority and individual line rate
- » Power failure detection, data storage, and automatic protection switching
- » CLI that can be accessed locally or remotely \* CLI that can be accessed locally or



System  
ity, including  
failure detection,  
orage, and  
tic protection  
ng