ADTRAN's New DSLAM Solution Eases DSL Deployment and Network Migration; ATM and Frame Switching Plus New Access Modules Support G.shdsl, ADSL, and DSX-1/E1

927 words
6 June 2000
08:02
Business Wire
BWR
English
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HUNTSVILLE, Ala.--(BUSINESS WIRE)--June 6, 2000--ADTRAN, Inc. (NASDAQ: ADTN), the market leader in DSL deployment equipment, is announcing new functionality for its Total Access(TM) system with the demonstration of new switch and access modules designed to reduce the cost of deploying Digital Subscriber Line (DSL) technology. With the addition of Cell and Packet Switching Modules, the Total Access 3000 can be configured as a DSL Access Multiplexer (DSLAM) supporting TDM, ATM, Frame Relay, and future IP networks. Service providers will benefit from easier DSL deployment and simplified TDM to packet network migration.

The Total Access 3000 DSLAM is particularly well suited for high-density Central Office (CO) or Remote Terminal (RT) deployment of DSL services. Since it is temperature hardened, it can be deployed in a wide variety of outside plant enclosures. It can deliver a large number of interfaces in a small space, conserving precious RT rack space. The chassis is only 6" tall and in its 23" wide version, up to 224 subscriber interfaces (depending on DSL type) can be deployed from a single system.

"We are building on the strengths of the Total Access system to bring to market one of the most versatile DSLAMs in the industry today", said Kevin Morgan, Director of Product Management for ADTRAN's Carrier Networks Division. "The many deployment options and ease of installation and support make the Total Access 3000 DSLAM a great value to both CLECs and ILECs."

Advanced Switching Modules Form the Heart of the System

The DSLAM functionality is enabled by the introduction of a new packet switching module. The DS3 Packet Switch Module is a high-performance packet switching engine. It supports frame multiplexing and full local switching of Frame Relay traffic to and from all access modules. The Packet Switch Module processes a continuous, bi-directional stream of back-to-back 64-byte frames at full DS3 speed and handles up to 817 PVCs.

In conjunction with the introduction of the Packet Switching Module, ADTRAN is debuting its Cell Switch Module. With comprehensive support for ATM QoS, the new DS3 Cell Switch Module provides all ATM functions as well as a DS3 interface. It supports Voice over DSL and other advanced services that carriers typically deploy from DSLAMs. ATM QoS parameters are provisioned individually for each DSL interface in the system.

New Access Modules Extend Reach and Increase Speed

The Total Access 3000 DSLAM announcement includes the introduction of a new access module for G.shdsl.

The 8-port G.shdsl Access Module is ADTRAN's fifth generation of products using TC PAM line coding. It can be used to obtain up to 224 ports in a single chassis, with each port delivering symmetric data rates up to 2.3 Mbps over distances 15 - 20% greater than current 2B1Q-based SDSL technology. Its spectral compatibility means no binder group restrictions, making it much easier for service providers to deploy. The G.shdsl line card also works well over existing copper lines with all impairments and impedances, reducing the need for costly truck dispatches.

Also being debuted are access modules for ADSL, and DSX-1/E1. The ADSL Access Module supports full rate ADSL (G.dmt) and G.lite, and can be configured on a per-port basis. Simultaneous POTS and data are supported with data rates up to 6.144 Mbps downstream and 640 kbps upstream. The module fully conforms to ITU G.992.1 and G.992.2.

A DSX-1/E1 Access Module is a unique feature not found in most DSLAMs. With four ports per module, the Quad DSX-1 provides E1 and DSX-1 support and can be configured for up to 112 ports per chassis. Support for E1 and DSX-1 greatly enhances the carriers' options for service deployment.

Total Access: Meeting Carriers' Requirements Today and into the

Future

Total Access 3000 is an intelligent, open-architecture, Carrier Class multiservice access platform for deploying Hi Cap and DSL services. An integral component of ADTRAN's Total Access system of multiservice access platforms, integrated access devices, and concentrators, Total Access 3000 offers unprecedented flexibility, along with multiple service options and management capabilities. This compact, modular device provides a single platform for delivering manageable, profitable services now and into the future.

ADTRAN will be demonstrating its Total Access DSL deployment solutions at Supercomm, June 6 - 8, in booth 527.

About ADTRAN

Established in 1985, ADTRAN, Inc. is a leading provider of deployment and access solutions for carrier and enterprise networks. ADTRAN technologies support more than two million local loops worldwide. More than 500 ADTRAN products support all major digital technologies, including T3, T1, E1, Frame Relay, DDS, HDSL, HDSL2, DSL, ISDN, wireless transport, and network management. According to Dataquest and IDC, ADTRAN holds revenue-leading positions in the Integrated Access, Frame Relay/DDS, and ISDN Extension and HDSL/T1/E1 markets. ADTRAN customers include the Regional Bell Operating Companies, interexchange carriers, GTE, domestic independent service providers, Competitive Local Exchange Carriers, corporate end users, international customers, and original equipment manufacturers.

For more information, contact the company at 800 9ADTRAN (800/923-8726) or via e-mail at info@adtran.com. On the web, visit www.adtran.com.

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