



## **ADTRAN Announces Availability of HDSL2 Products; ADTRAN Is First Systems Vendor to Develop Chip-sets Ensuring Standards Compliance**

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HUNTSVILLE, Ala.--(BUSINESS WIRE)--March 1, 1999--ADTRAN, Inc. (NASDAQ: ADTN), the industry leader in four-wire HDSL equipment, announced today the availability of its new HDSL2 product line. The products are designed according to the proposed standard developed by the ANSI T1E1.4 Standards Committee, whose HDSL2 line coding technique originated with ADTRAN's Simple-Coded Pulse Amplitude Modulation (SC PAM(R)) technology. The ADTRAN HDSL2 products work within industry-standard mechanics, making them fully compatible with legacy network equipment. With this product release, ADTRAN provides carriers the opportunity to forge ahead with HDSL2 deployment.

"We are excited to offer carriers the opportunity for testing of our new HDSL2 products," said Tom Stanton, ADTRAN Vice President of Carrier Network Marketing. "While this is a new concept to other companies, ADTRAN has been shipping products for two years that use SC-PAM(R) technology in our Total Reach(R) product line. ADTRAN's new HDSL2 products actually represent our third-generation of products utilizing this two-wire technology."

In the simplest of terms, HDSL2 is HDSL deployed over 2-wire circuits. ADTRAN, a long-time leader in DSL development, has been a leader in the HDSL2 standardization, as well. The goal of the standards committee's work is to develop the criteria for interoperability between vendors of HDSL2 products.

"Although the final standard is incomplete, ADTRAN is moving forward to allow early HDSL2 deployment," Stanton said. "By developing in-house silicon, ADTRAN can ensure that all industry standards are met. Carriers can begin enjoying the efficiencies of the new technology with the guarantee of ADTRAN quality and reliability. All of our HDSL2 products meet the current proposed HDSL2 standard."

### **ADTRAN's HDSL2 System Solution**

In addition to the standard bank cards, ADTRAN is also announcing its H2TU-C unit for the Total Access(TM) 3000 platform. The Total Access H2TU-C is a high-density Central Office transceiver unit that works with a remote unit (H2TU-R) and HDSL2 to establish T1 data rates over a single pair local loop. The unit is designed to operate in the Total Access chassis, which accommodates up to 28 HDSL2 circuits in a 6-inch tall space.

The Total Access system, ADTRAN's new carrier class integrated access device, can provide one single service or any combination of services with comprehensive management features. It can serve as an office repeater shelf, an M1/3 multiplexer, a SONET multiplexer, or an ISDN DLC. The Total Access 3000 system supports HDSL, T1/FT1, ISDN, xDSL and Quad Fiber Optic. A single chassis can simultaneously support DS3 and DSX-1, or SONET and DSX-1 network interfaces. The Total Access 3000 system also provides built-in 1:1 HiCap protection for HDSL, T1 and optical interfaces. With the addition of HDSL2 capabilities, the Total Access platform offers carriers full flexibility in deployment of the industry's latest technologies.

### **About ADTRAN**

Established in 1985, ADTRAN, Inc. is a leading provider of network deployment and access solutions for delivering today's digital telecommunications services over existing copper infrastructures.

Today, 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, xDSL, ISDN, and wireless transport. In the Telco and enterprise markets, ADTRAN produces a complete end-to-end solution that provides the greatest network efficiency and lowest possible telecommunications costs.

According to Dataquest and IDC, ADTRAN holds revenue-leading positions in the Frame Relay/DDS, ISDN Extension and HDSL/T1/E1 network and access markets. ADTRAN customers include the Regional Bell Operating Companies, interexchange carriers, GTE, domestic independent service providers, corporate end users, international customers and original equipment manufacturers.

For more information, contact the company at 800 9ADTRAN (800 923-8726), 256 963-8000, or via e-mail at [info@adtran.com](mailto:info@adtran.com). On the web, visit [www.adtran.com](http://www.adtran.com).

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