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TTC Integrates Adtran's Total Reach DDS and ISDN Technology Into Handheld Test Sets

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GERMANTOWN, Md.--(BUSINESS WIRE)--Nov. 17, 1998--

Repeaterless Technology to Be Added to All TPI Instruments to

Reduce Turn-Up Time for Telecom Service

TTC today announced that ADTRAN's Total Reach repeaterless technology will be integrated into all of TTC's TPI test instruments. The first of these analyzers to support ADTRAN's Total Reach technology will be the TPI 550B+ ISDN BRI Set, the TPI 105 Data Test Unit and the TPI 95B Digital Loop Analyzer.

TTC initially will integrate the Total Reach DDS interface application into the full line of TPI DDS handheld test instruments. The interface for Total Reach DDS capability will be available in January 1999. TTC will integrate the Total Reach ISDN technology into its test instruments beginning in April 1999.

"We are convinced that the ADTRAN Total Reach repeaterless technology is a unique offering that will be embraced by the industry," said Bob Vogel, president of TTC's TPI division. "The performance enhancements provided by the Total Reach technology translate into a winning combination that provides true savings to organizations planning for DDS and ISDN implementation. TTC's products will allow service providers to quickly, accurately and efficiently turn up, validate and provision ISDN and DDS Total Reach systems using the TPI 550B+, the TPI 105 and the TPI 95B instruments."

"ADTRAN is pleased to see the incorporation of our Total Reach technology into the high quality test sets manufactured by TTC," said Tom Stanton, ADTRAN vice president of telco marketing.

ADTRAN's Total Reach DDS products incorporate the latest in loop technology to extend DDS deployment ranges to 50,000 feet, eliminating the need for repeaters. Using two-wire SCPAM technology to deliver rates up to 64 kbps, Total Reach DDS utilizes existing copper in a way that saves labor costs and reduces service delivery times.

The Total Reach ISDN digital subscriber loop is the first in a family of Total Reach products that extends the range of the ISDN local loop without the use of mid-span repeaters.

The loop consists of a Total Reach ISDN central office (TRI-C) and a customer site, and a Total Reach ISDN remote unit (TRI-R). The Total Reach system uses SCPAM technology to carry BRI information up to 30,500 feet from the central office.

TTC's TPI 550B+ has become the industry standard handheld test set for ISDN. The TPI 550B+ offers a full complement of features, functions and performance capabilities with considerable built-in flexibility to turn up and troubleshoot services that include ISDN BRI, EBS and POTS.

The TPI 550B+ is a highly reliable tool for service turn up. It verifies customer services for voice, data and packet; determines line quality with BER testing; and provides dual call support, including dual channel BER testing and inter-channel delay testing.

TTC's TPI 105 data test set is a battery-powered instrument that isolates problems quickly to minimize repair time. This is accomplished via a full range of DS0, DS1 and T1/FT1 test options.

The TPI 95B is TTC's digital loop analyzer, supporting four-wire switched-56 service, as well as DS0 central office, CPE, TIMS and metallic load-coil testing. TTC's TPI 105 and TPI 95B support remote access and control capability.

Established in 1985, ADTRAN is a leading provider of total system solutions for delivering today's digital transmission technologies over existing telecommunications infrastructures. The company is best known for developing cost-effective, high-performance equipment that transforms copper wire local loops into high-speed digital networks.

The ISO 9001 company is a top supplier of DDS, ISDN, frame relay, T1/FT1 and HDSL products. ADTRAN customers include GTE, the regional Bell operating companies (RBOCs) and many of the more than 1,300 independent telcos in the United States. ADTRAN also designs and manufactures products for private end users in the CPE market.

For more information, contact the company at 1-800-9ADTRAN or via e-mail at info@adtran.com. On the Web, visit www.adtran.com.

TTC, a Dynatech company (OTC-BB: DYNA), is a global leader in the design, manufacture and marketing of test products, test systems, software and support services that enable communications providers and users to more efficiently install and maintain successful networks.

Known for its T-BERD and FIREBERD analyzers, CENTEST centralized test systems and TPI handheld instruments, TTC provides testing solutions for ATM, ISDN, xDSL, frame relay, wireless, SDH and SONET technologies. TTC also meets customer needs through extensive training programs, technical assistance and consulting services.

Headquartered near Washington, D.C., in Germantown, Md., TTC has offices and distributors worldwide, and is accessible via the Internet at www.ttc.com, or by telephone (toll free) at 1-800-638-2049 or (301) 353-1550.

TTC, T-BERD, FIREBERD and CENTEST are registered trademarks of Telecommunications Techniques Corp. Total Reach and SCPAM are trademarks of ADTRAN.

Glossary: ADSL - asymmetric digital subscriber line; ATM - asynchronous transfer mode; BER - bit error rate; BRI - basic rate interface; CPE - customer premises equipment; DDS - dataphone digital service; DSL - digital subscriber line; EBS - enhanced business service; HDSL - high bit rate digital subscriber line; ISDN integrated services digital network; POTS - plain old telephone service; SCPAM - simple coded pulse amplitude modulation; SDH - synchronous digital hierarchy; SONET - synchronous optical network; TIMS - transmission impairment measurement set; TRI-C -- Total Reach ISDN-central office; TRI-R -- Total Reach ISDN-remote.

Customer and product-related inquiries should be directed to 1-800-638-2049 (U.S. only) or +1 301 353 1550. Inquiries from the media and industry analysts should be directed to Alice Ducq (ducqa@ttc.com) at +1 301-353-1560, ext. 3153.

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