

ACTERNA

310

The Acterna (formerly TTC) T-BERD 310 is a rugged, portable communications analyzer designed for comprehensive physical and protocol layer testing of SONET, SDH, ATM, and T-Carrier networks. Supporting transmission rates from DS1 up to OC-48/STM-16, it is widely utilized in central offices, laboratories, and manufacturing environments for equipment installation, network maintenance, and troubleshooting.

SPECIFICATIONS

General Characteristics

Supported Technologies	SONET, SDH, T-Carrier, ATM
Transmission Rates (SONET/SDH/T-Carrier)	DS1 to OC-48 / STM-16
Transmission Rates (ATM)	DS1, DS3, OC-3, OC-12
Operating Modes	In-service monitoring, out-of-service testing

Test Interfaces (Transmitter & Receiver)

Optical Wavelengths	1310 nm, 1550 nm (Dual-wavelength laser technology)
Optical Media Testing Rates	Up to OC-48

Protocol & Payload Testing

Payload Testing	Bit-Error-Rate Tests (BERT)
ATM Analysis	Cell search, preview mode, cell loss, delay variation, OAM cell capabilities
T-Carrier Testing	DS1/DS0 installation/qualification/troubleshooting, DS3 monitoring and analysis

Error & Alarm Injection

Error & Alarm Injection	Front panel ATM error and alarm insertion
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Display & User Interface

Status Indicators	Front panel LEDs for alarm notification
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Connectivity & Interfaces

Remote Control Software	Windows-based DTM and UNIX-based RTM (Graphical User Interface simulating front panel)
Remote Control Automation	Predefined command execution via script files

Physical Specifications

Form Factor	Portable, rugged, upgradeable chassis
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TECHNOLOGY

SONET / SDH / ATM / T-Carrier

APPLICATIONS

Network Installation, Maintenance, and Manufacturing Test

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.