

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

TTC

TTC T-BERD 310 Communications Analyzer with Options

The TTC T-BERD 310 is a communications analyzer used for testing and troubleshooting telecommunications networks. It offers various options for comprehensive analysis of signal quality, performance, and protocol compliance. Ideal for field technicians and network engineers.



MODEL

TTC T-BERD 310

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

T-BERD 310

LISTING

<https://aumictechlabs.com/products/t-berd-310-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The TTC T-BERD 310 Communications Analyzer is a modular test instrument for DS1/DS0, DS3, SONET, and ATM network analysis. It performs jitter measurement, pulse shape analysis to ANSI and ITU-T standards, payload identification, QoS verification, cell loss and delay variation measurements, and optical return loss testing. The instrument supports field upgrades via optional modules and operates across central offices, laboratories, manufacturing facilities, and field environments. Technical Specifications DS1/DS0 Testing DS1 Scan and Automatic Payload Detection ESF Data Link Analysis Programmable loop codes and test patterns DS1 timing slip measurement Line coding and DS0 analysis DS3 Testing Jitter measurements Pulse shape analysis conforming to ANSI and ITU-T specifications Signal level verification Error burst

correlation with level dropouts and frequency variations SONET Testing OC-12c/OC-3c payload identification Automatic protection switch (APS) time measurement Jitter spectral characteristics analysis Data communications channel access and conformance testing DWDM channel monitoring and optical spectrum analysis ATM Testing ATM cell analysis and Quality of Service (QoS) verification OAM cell capabilities ATM error and alarm insertion Cell loss and delay variation measurements ATM traffic condition simulation Optical Testing Optical return loss measurements Optical media testing Power Requirements: AC power, 47 to 63 HzKey Features Five (5) DS3 outputs with multiple connectivity options RS232 and IEEE-488 remote control and data transfer interfaces Bit Error Pulse, Jitter Output, and external clock outputs DS1 transmit and receive ports; E1 DROP 120Ω balanced; VF OUT 600Ω Modular architecture with field upgrade capabilityTypical Applications Central office testing and troubleshooting Laboratory and manufacturing environments Mobile telephone switching office operations Outside plant field commissioning and maintenanceCompatibility & Integration Physical Specifications Standard chassis: 6.5 × 14 × 16 inches Extended chassis (Option 310-11, 3-slot expansion): 6.5 × 14 × 18.7 inches Weight: Approximately 24 lbs Standards ComplianceANSI and ITU-T specifications for DS3 pulse shape analysis.

Features & description

From manufacturer datasheet

Technical Specifications

DS1 Scan and Automatic Payload Detection ESF Data Link Analysis Programmable loop codes and test patterns DS1 timing slip measurement Line coding and DS0 analysis DS3 Testing Jitter measurements Pulse shape analysis conforming to ANSI and ITU-T specifications Signal level verification Error burst correlation with level dropouts and frequency variations SONET Testing OC-12c/OC-3c payload identification Automatic protection switch (APS) time measurement Jitter spectral characteristics analysis Data communications channel access and conformance testing DWDM channel monitoring and optical spectrum analysis ATM Testing ATM cell analysis and Quality of Service (QoS) verification OAM cell capabilities ATM error and alarm insertion Cell loss and delay variation measurements ATM traffic condition simulation Optical Testing Optical return loss measurements Optical media testing Power Requirements: AC power, 47 to 63 Hz

Key Features

Five (5) DS3 outputs with multiple connectivity options RS232 and IEEE-488 remote control and data transfer interfaces Bit Error Pulse, Jitter Output, and external clock outputs DS1 transmit and receive ports; E1 DROP 120Ω balanced; VF OUT 600Ω Modular architecture with field upgrade capability

Compatibility & Integration Physical Specifications

Standard chassis: 6.5 × 14 × 16 inches Extended chassis (Option 310-11, 3-slot expansion): 6.5 × 14 × 18.7 inches Weight: Approximately 24 lbs Standards Compliance ANSI and ITU-T specifications for DS3 pulse shape analysis.

TTC T-BERD 310 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the TTC T-BERD 310. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

TTC T-BERD 310 price

This TTC T-BERD 310 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

TTC T-BERD 310 calibration cost

NIST-traceable calibration for the TTC T-BERD 310 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

Central office testing and troubleshooting Laboratory and manufacturing environments Mobile telephone switching office operations Outside plant field commissioning and maintenance

Unit notes

The TTC T-BERD 310 Communications Analyzer is a modular test instrument for DS1/DS0, DS3, SONET, and ATM network analysis. It performs jitter measurement, pulse shape analysis to ANSI and ITU-T standards, payload identification, QoS verification, cell loss and delay variation measurements, and optical return loss testing. The instrument supports field upgrades via optional modules and operates across central offices, laboratories, manufacturing facilities, and field environments.

Technical Specifications

DS1/DS0 Testing DS1 Scan and Automatic Payload Detection ESF Data Link Analysis Programmable loop codes and test patterns DS1 timing slip measurement Line coding and DS0 analysis

DS3 Testing Jitter measurements Pulse shape analysis conforming to ANSI and ITU-T specifications Signal level verification Error burst correlation with level dropouts and frequency variations

SONET Testing OC-12c/OC-3c payload identification Automatic protection switch (APS) time measurement Jitter spectral characteristics analysis Data communications channel access and conformance testing DWDM channel monitoring and optical spectrum analysis

ATM Testing ATM cell analysis and Quality of Service (QoS) verification OAM cell capabilities ATM error and alarm insertion Cell loss and delay variation measurements ATM traffic condition simulation

Optical Testing Optical return loss measurements Optical media testing

Power Requirements: AC power, 47 to 63 Hz

Key Features Five (5) DS3 outputs with multiple connections

T-BERD 310 Specifications

PARAMETER	VALUE
Voltage / Current Range	47 to 63 Hz (AC)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

The TTC T-BERD 310 is a communications analyzer used for testing and troubleshooting telecommunications networks. It offers various options for comprehensive analysis of signal quality, performance, and protocol compliance. Ideal for field technicians and network engineers.

The TTC T-BERD 310 Communications Analyzer is a modular test instrument for DS1/DS0, DS3, SONET, and ATM network analysis. It performs jitter measurement, pulse shape analysis to ANSI and ITU-T standards, payload identification, QoS verification, cell loss and delay variation measurements, and optical return loss testing. The instrument supports field upgrades via optional modules and operates across central offices, laboratories, manufacturing facilities, and field environments.

Aumictech offers NIST-traceable calibration and repair for the TTC T-BERD 310. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1-3 business days after receipt.

This TTC T-BERD 310 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

T-BERD 310 Specifications

PARAMETER	VALUE
Voltage / Current Range	47 to 63 Hz (AC)

Technical Specifications

DS1 Scan and Automatic Payload Detection ESF Data Link Analysis Programmable loop codes and test patterns DS1 timing slip measurement Line coding and DS0 analysis DS3 Testing Jitter measurements Pulse shape analysis conforming to ANSI and ITU-T specifications Signal level verification Error burst correlation with level dropouts and frequency variations SONET Testing OC-12c/OC-3c payload identification Automatic protection switch (APS) time measurement Jitter spectral characteristics analysis Data communications channel access and conformance testing DWDM channel monitoring and optical spectrum analysis ATM Testing ATM cell analysis and Quality of Service (QoS) verification OAM cell capabilities ATM error and alarm insertion Cell loss and delay variation measurements ATM traffic condition simulation Optical Testing Optical return loss measurements Optical media testing Power Requirements: AC power, 47 to 63 Hz

Key Features

Five (5) DS3 outputs with multiple connectivity options RS232 and IEEE-488 remote control and data transfer interfaces Bit Error Pulse, Jitter Output, and external clock outputs DS1 transmit and receive ports; E1 DROP 120Ω balanced; VF OUT 600Ω Modular architecture with field upgrade capability

Compatibility & Integration Physical Specifications

Standard chassis: 6.5 × 14 × 16 inches Extended chassis (Option 310-11, 3-slot expansion): 6.5 × 14 × 18.7 inches Weight: Approximately 24 lbs Standards Compliance

ANSI and ITU-T specifications for DS3 pulse shape analysis.

TTC T-BERD 310 – Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the TTC T-BERD 310. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1-3 business days after receipt.

Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

Request Calibration → Request Repair Quote →

TTC T-BERD 310 price

This TTC T-BERD 310 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

TTC T-BERD 310 calibration cost

NIST-traceable calibration for the TTC T-BERD 310 is (standard – pass/fail certificate and calibration

sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 12, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.