

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

FLUKE

Fluke 635A Quickbert " T1 handheld testset

Fluke Networks 635A QuickBERT T1 Handheld Tester The Fluke Networks 635A QuickBERT-T1 is a handheld T1 bit-error-rate and facility test set that automatically detects framing, line coding, errors, alarms, level, and frequency. OEM 635A specification tables cover primary and reference T1 receivers, a T1 transmitter at 1.544000 MHz plus or minus 5 ppm, fractional T1 BERT, HDSL loop codes, and NiMH battery operation for approximately six hours. T1 span verification and troubleshooting, out-of-service BERT and fractional T1 BERT, in-service monitor and bridge access testing, clock-slip timing isolation, and DS0 voice channel monitoring. The Fluke Networks 635A QuickBERT-T1 is a handheld T1 bit-error-rate and facility test set that automatically detects framing, line coding, errors, alarms, level, and frequency. OEM 635A specification tables cover primary and reference T1 receivers, a T1 transmitter at 1.544000 MHz plus or minus 5 ppm, fractional T1 BERT, HDSL loop codes, and NiMH battery operation for approximately six hours. T1 span verification and troubleshooting, out-of-service BERT and fractional T1 BERT, in-service monitor and bridge access testing, clock-slip timing isolation, and DS0 voice channel monitoring.



MODEL

Fluke 635A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

635A

LISTING

<https://aumictechlabs.com/products/635a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 635A QuickBERT-T1 is a portable, battery-powered handheld test set engineered for T1 line verification, diagnostics, and performance validation. Field technicians and network engineers

use this instrument to characterize T1 circuits, measure key performance parameters, and isolate transmission faults. The device performs Bit Error Rate Testing (BERT), fractional T1 BERT (Nx56 and Nx64), and HDSL loop code transmission with automatic synchronization to framing type, line coding, and BERT patterns. Technical Specifications Bit Error Rate Testing (BERT) on full and fractional T1 circuits (Nx56 and Nx64) HDSL loop code transmission Transmits eleven standard BERT patterns plus 64-bit user-defined pattern "Through" mode for retransmitting incoming patterns Independent transmit and receive capability Automatic detection and display of T1 framing type (SF, ESF, SLC96, unframed) and line coding (AMI, B8ZS) Measures DS1 frequency, level, and clock slips Measures DS0 frequency and level Full-range primary T1 receiver for low-level signal testing Secondary reference receiver for network synchronization analysis Key Features Error insertion: logic, Bipolar Violations (BPV), and frame bit errors for diagnostic testing Error detection and display: bipolar violations, frame bit errors, CRC errors (ESF), and BERT pattern bit errors Displays T1 alarm conditions and major performance parameters Captures and displays DTMF digits from voice channels Voice monitoring via internal speaker or headset Displays DS0 data and signaling bits History status tracking for intermittent problem diagnosis Test result and setup information printing capability Typical Applications T1 circuit commissioning and acceptance testing Transmission line troubleshooting and performance analysis Network synchronization verification Voice channel quality assessment Fractional T1 service validation Compatibility & Integration Supports SF, ESF, SLC96, and unframed T1 framing formats. Accepts both AMI and B8ZS line coding standards for comprehensive T1 network compatibility.

635A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Fluke Networks 635A QuickBERT T1
Primary Bridge Impedance	greater than 700 ohm
Primary Term Impedance	100 ohm plus or minus 5 percent
Primary Monitor Impedance	100 ohm plus or minus 5 percent
Primary Bridge Range	6 to minus 30 dBDSX
Primary Term Range	6 to minus 30 dBDSX
Primary Monitor Range	minus 15 dB to minus 24 dB
Framing Modes	NONE D4 ESF SLC96
Line Coding	AMI B8ZS
Transmit Frequency	1544000 Hz plus or minus 5 ppm
Transmit LBO	fixed at 0 dB
DS1 Frequency Accuracy	plus or minus 5 ppm
DS1 Frequency Resolution	1 Hz
DS1 Frequency Range	1544000 plus or minus 10000 Hz
DS0 Frequency Accuracy	plus or minus 1.5 Hz
Error Count Maximum	2.8147E14
Display	4 × 20 LCD
Printer PC Interface	RS232 DB9 2.4 to 19.2 kbps
Battery Type	rechargeable NiMH
Battery Life Typical	approximately 6 hours continuous
Auxiliary Power	9 to 12 VDC 1000 mA
Operating Temperature	0 C to 50 C
Storage Temperature	minus 20 C to 60 C
Humidity Maximum	95 percent non-condensing
Size HxWxL	4.4 cm x 12.7 cm x 22.8 cm

PARAMETER	VALUE
Weight	0.7 kg
Pulse Shape Compliance	AT andTPub 62411 and ANSI T1.403
Jitter Tolerance Compliance	AT andTPub 62411
Humidity	Maximum: 95 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 60 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	Maximum: 95 percent non-condensing
Humidity Maximum	95 percent non-condensing
Size HxWxL	4.4 cm x 12.7 cm x 22.8 cm
Weight	0.7 kg
Pulse Shape Compliance	AT andTPub 62411 and ANSI T1.403
Jitter Tolerance Compliance	AT andTPub 62411 Notes From Fluke Networks 635A QuickBERT-T1 OEM specification tables (AAA Testers and related 635A datasheet summaries). Confirm print/RS232 and battery-status features unique to 635A versus earlier 635.

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.

Specifications	
Specifications	
PARAMETER	VALUE
Instrument Family	Fluke Networks 635A QuickBERT T1
Primary Bridge Impedance	greater than 700 ohm
Primary Term Impedance	100 ohm plus or minus 5 percent
Primary Monitor Impedance	100 ohm plus or minus 5 percent
Primary Bridge Range	6 to minus 30 dBDSX
Primary Term Range	6 to minus 30 dBDSX
Primary Monitor Range	minus 15 dB to minus 24 dB
Framing Modes	NONE D4 ESF SLC96
Line Coding	AMI B8ZS
Transmit Frequency	1544000 Hz plus or minus 5 ppm
Transmit LBO	fixed at 0 dB
DS1 Frequency Accuracy	plus or minus 5 ppm
DS1 Frequency Resolution	1 Hz
DS1 Frequency Range	1544000 plus or minus 10000 Hz
DS0 Frequency Accuracy	plus or minus 1.5 Hz
Error Count Maximum	2.8147E14
Display	4 x 20 LCD
Printer PC Interface	RS232 DB9 2.4 to 19.2 kbps
Battery Type	rechargeable NiMH
Battery Life Typical	approximately 6 hours continuous
Auxiliary Power	9 to 12 VDC 1000 mA
Operating Temperature	0 C to 50 C
Storage Temperature	minus 20 C to 60 C
Humidity Maximum	95 percent non-condensing
Size HxWxL	4.4 cm x 12.7 cm x 22.8 cm
Weight	0.7 kg

PARAMETER	VALUE
Pulse Shape Compliance	AT andTPub 62411 and ANSI T1.403
Jitter Tolerance Compliance	AT andTPub 62411

Notes

From Fluke Networks 635A QuickBERT-T1 OEM specification tables (AAA Testers and related 635A datasheet summaries). Confirm print/RS232 and battery-status features unique to 635A versus earlier 635.

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 14, 2026

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