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Data Sheet

August 13, 2026

EXFO

EXFO Telecom/Datacom Analyzer Puma 4000E

The EXFO Puma 4000E is a field-portable analyzer for installation, maintenance, and testing of 2.048 Mbit/s PCM and data communications circuits. It delivers comprehensive troubleshooting, performance monitoring, and validation across telecom and datacom network infrastructure through dual E1 transmit/receive ports supporting fully bi-directional drop and insert testing. Key Features Bit Error Rate Testing (BERT) Performs error rate analysis across G.703 unframed and G.704 framed HDB3/AMI signals. Supports user-selectable patterns (up to 32 bits), fixed 4/8 bit patterns, QRSS, and PRBS (2^3 to $2^{32}-1$). Error injection in pattern, framing, and alarm bits. Records G.821, G.826, and M.2100 results. Bi-directional drop and insert test modes conform to ITU-T O.151, O.152, O.153. Propagation Delay Measurement Measures round-trip delay at 1 microsecond resolution; calculates approximate copper



MODEL

Exfo Puma 4000E

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Puma 4000E

LISTING

<https://aumictechlabs.com/products/puma-4000e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Mbit/s) 75-ohm unbalanced (BNC) and 120-ohm balanced (CF or RJ45) connectors G.703/G.704 compliance: unframed 2 Mbit/s and framed PCM-30/31/30C/31C Contiguous and non-contiguous time slot assignments Datacom Interfaces Menu-selectable DTE/DCE operation 2 Mbit/s balanced and unbalanced, 64 kbit/s co-directional V.35, V.24/RS232C, V.36/RS449, RS530, X.21 protocols G.703 co-directional test interface 64 kbit/s contra-directional testing External clock interface VF input/output (600-ohm) VT100 terminal emulation for craft access PCMCIA slotKey Features Bit Error Rate Testing (BERT) Performs error rate analysis across G.703 unframed and G.704 framed HDB3/AMI signals. Supports user-selectable patterns (up to 32 bits), fixed 4/8 bit patterns, QRSS, and PRBS (2^3 to $2^{32}-1$). Error injection in pattern, framing, and alarm bits. Records G.821, G.826, and M.2100 results. Bi-directional drop and insert test modes conform to ITU-T O.151, O.152, O.153. Propagation Delay Measurement Measures round-trip delay at 1 microsecond resolution; calculates approximate copper equivalent distance. Pulse Mask Conformance Analyzes E1 output pulse height and shape against ITU-T pulse mask templates from regenerators, PABXs, and multiplexers. Jitter Measurement Identifies timing and clock problems on E1 links. Typical Applications PBX to PSTN interconnections Mobile base station connectivity Private digital circuit provisioning PCM voice traffic transport Frame relay and IP networks ISDN and WAN connectivity Compatibility & Integration Supports ITU-T G.703, G.704, and O.151/O.152/O.153 standards. PCMCIA expansion slot enables additional functionality. VT100 terminal emulation provides craft port access.

Features & description

From manufacturer datasheet

Features

• Dual E1 Tx/Rx on higher models (75 Ω and 120 Ω) • G.703 unframed and G.704 framed PCM-30/31 • Drop-and-insert and bidirectional D&I BERT • Datacom interfaces to 10 Mbit/s sync class • G.821 / G.826 / M.2100 performance analysis • Auto-configure, pulse mask, slips measurement • Internal NiMH battery and AC charger • Multilingual UI and remote control

Applications

• E1 PCM link installation and maintenance • PBX-to-PSTN and mobile backhaul E1 testing • Datacom BERT on V.35/V.24/X.21/RS-449 • Frame relay and ISDN turn-up/monitor options • Mux/demux, drop-and-insert, and VF testing

PUMA4000E Characteristics / Specifications

PARAMETER	VALUE
Model	Puma 4000E Series
Manufacturer	EXFO
Instrument Type	Handheld Telecom/Datacom Analyzer
Alias	Puma 4000E; PUMA-4200E / 4300E / 4400E class
Primary rate	2.048 Mbit/s E1
E1 impedance	75 Ω BNC; 120 Ω CF/RJ45 class
E1 ports by model	1 or 2 Tx/Rx
Framing	G.703 unframed; G.704 PCM-30/31/30C/31C
Channel testing	m and n $\times$ 64 kbit/s
G.703 codirectional	optional
Contradirectional	64 kbit/s
Datacom sync interfaces	V.35; V.24; X.21; V.36/RS-449; EIA-530 class
Datacom sync clocking	up to 10 Mbit/s
V.24 async testing	to 460 kbit/s
BERT results	G.821; G.826; M.2100
Emulation	software-selectable DCE/DTE
Clock sources	internal; recovered; external
Features	auto-configure; pulse mask; slips; CAS; DTMF
Storage	test setup/results; PCMCIA card option
Power	internal rechargeable NiMH; AC adapter/charger
Form	rugged handheld
Related models	4200E; 4220E; 4300E; 4340E; 4400E
Rackmount versions	selected models
Discontinued date published	2/15/2011
End of service published	2/15/2016

PARAMETER	VALUE
Printer support	serial/parallel
Audio	600 Ω external audio I/O class Notes Specs from EXFO Puma 4000E Series datasheet. Confirm exact variant (4200E/4300E/4400E etc.), installed options (ISDN/jitter/frame relay), and connector set on the unit.

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.

performance analysis

- Auto-configure, pulse mask, slips measurement
- Internal NiMH battery and AC charger
- Multilingual UI and remote control

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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

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