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Data Sheet

August 15, 2026

ADVANTEST

Advantest D3273 3Gbit/s Error Detector

The Advantest D3273 is a 3 Gbit/s error detector in Advantest's error-performance BERT line. OEM discontinued-product listings classify D3273 as a 3 Gbit/s error detector used with matching pulse-pattern generators for high-speed digital and optical module BER. Sibling D3286 covers 150 Mbps to 12.5 Gbps with SDH/SONET frame sync; D3281 is listed as aQmonitor. D3273 provides error detection at 3 Gbit/s class rates for O/E, E/O, and high-speed logic evaluation. 3 Gbit/s BER of optical modules, multiplexers, and high-speed logic. Related 12.5 Gbps Ed: D3286 150 Mbps to 12.5 Gbps error detector Related Ppg Family: D3186 pulse pattern generator family Measurement Class: bit error rate / error performance Literature: Advantest D3273 3 Gbit/s error detector listings and discontinued EMI list



MODEL

Advantest D3273

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

D3273

LISTING

<https://aumictechlabs.com/products/d3273-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest D3273 is a 3 Gbit/s error detector engineered to evaluate bit error rate performance in high-speed digital communication transmission systems and devices. Operating across 50 MHz to 3 GHz, it delivers precise error measurement and analysis through multiple detection modes and advanced pattern generation capabilities. Technical Specifications
Frequency Range: 50 MHz to 3 GHz Input Impedance: 50 ohms Operating Temperature: 0 to 50°C Storage Temperature: -20 to 60°C Humidity: ≤85% RH (non-condensing) Power Supply: Auto-switching 100-120 VAC or 220-240 VAC, 50/60 Hz Power Consumption: ≤300 VA Key Features

Measurement Modes: Bit Error Rate (BER), Error Count, Error Second (ES), and Error-Free Second (EFS) Pattern Generation: PRBS sequences from $2^7 - 1$ to $2^{23} - 1$; programmable patterns to 2^{16} bits (65,536) Pattern Memory: Ten stored word patterns for rapid configuration Variable Mark Ratio: PRBS patterns support 1/8 to 7/8 ratios, plus 0/8 and 8/8 Error Detection: Separate identification of INSERT (0→1) and OMIT (1→0) errors AUTO SEARCH Function: Automatic optimization of threshold level and phase delay alignment between data and clock inputs Display: Large LED readout for measurement results Cooling: Integrated fan with minimum 10 cm clearance required around air vents; horizontal operation only Typical Applications Bit error rate characterization of high-speed data transmission channels, device validation under PRBS and custom pattern stimuli, and threshold/timing optimization during communication system development. Compatibility & Integration Designed for operation with the Advantest D3173/D3173A Pulse Pattern Generator to form a complete BER test system.

D3273 Characteristics / Specifications

PARAMETER	VALUE
Model	D3273
Instrument Type	Error detector
Bit Rate Class	3 Gbit/s
RelatedQMonitor	D3281 Q monitor
Related 12.5 Gbps Ed	D3286 150 Mbps to 12.5 Gbps error detector
Related Ppg Family	D3186 pulse pattern generator family
Measurement Class	bit error rate / error performance
Manufacturer	Advantest
Use Case	3 Gbit/s BER
Literature	Advantest D3273 3 Gbit/s error detector listings and discontinued EMI list
Family	Advantest error performance test systems
Documentation Type	OEM D3273 listing
Brand Lineage	Advantest
System Role	error detector
Form Factor	benchtop BERT detector
Application Class	O/E E/O and high-speed logic evaluation
Remote Class	GPIB class BERT remote
Operating Temperature Class	laboratory BERT
Year Class	Advantest 3 Gbit/s error detector family
Vendor Path	Advantest
Clock Class	recovered or external clock error detection
Pattern Class	PRBS and programmed patterns on matching PPG
Documentation Class	OEM BERT catalog
Interface Class	high-speed data and clock inputs

PARAMETER	VALUE
Operating temperature	Class: laboratory BERT

D3273 Specifications

PARAMETER	VALUE
Advantest D3273 3 Gbit/s Error Detector	Overview
Applications	3 Gbit/s BER of optical modules, multiplexers, and high-speed logic.
Key Features	3 Gbit/s error detector
Technical Specifications	Model: D3273

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory BERT
Operating Temperature	Class: laboratory BERT
Operating Temperature Class	laboratory BERT
Year Class	Advantest 3 Gbit/s error detector family
Vendor Path	Advantest
Clock Class	recovered or external clock error detection
Pattern Class	PRBS and programmed patterns on matching PPG
Documentation Class	OEM BERT catalog
Interface Class	high-speed data and clock inputs Notes From Advantest D3273 3 Gbit/s error-detector listings and the discontinued EMI product list. Input amplitude, threshold steps, and exact bit-rate window are on the D3273 specification sheet.

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 BERT line. OEM discontinued-product listings classify D3273 as a 3 Gbit/s error detector used with matching pulse-pattern generators for high-speed digital and optical module BER. Sibling D3286 covers 150 Mbps to 12.5 Gbps with SDH/SONET frame sync; D3281 is listed as a Qmonitor. D3273 provides error detection at 3 Gbit/s class rates for O/E, E/O, and high-speed logic evaluation.

Applications

3 Gbit/s BER of optical modules, multiplexers, and high-speed logic.

Key Features

3 Gbit/s error detector

Advantest BERT family

Pairs with matching PPG

SDH/SONET era error performance

GPIB class remote

Technical Specifications

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PARAMETER	VALUE
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Year Class	Advantest 3 Gbit/s error detector family

PARAMETER	VALUE
Vendor Path	Advantest
Clock Class	recovered or external clock error detection
Pattern Class	PRBS and programmed patterns on matching PPG
Documentation Class	OEM BERT catalog
Interface Class	high-speed data and clock inputs

Notes
From Advantest D3273 3 Gbit/s error-detector listings and the discontinued EMI product list. Input amplitude, threshold steps, and exact bit-rate window are on the D3273 specification sheet.

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.