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Data Sheet
August 14, 2026

ADVANTEST

Advantest D3371 Digital Transmission Analyzer (10 MHz–3.6 GHz)

Line Power: 100 to 120 VAC and 220 to 240 VAC 50/60 Hz auto Remote Interface: GPIB IEEE 488.2 Ethernet 10 Base-T USB Error Addition: Repeat Single and External routes 1 to 16 From Advantest D3371-3E March 2002 specification tables. PPG option 10 is 2 Vp-p, option 11 is 3 Vp-p; option 12 is the error-detector module. Remote Interface: GPIB IEEE 488.2 Ethernet 10 Base-T USB Error Addition: Repeat Single and External routes 1 to 16 From Advantest D3371-3E March 2002 specification tables. PPG option 10 is 2 Vp-p, option 11 is 3 Vp-p; option 12 is the error-detector module.

MODEL	CALIBRATION
Advantest D3371	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
D3371	https://aumictechlabs.com/products/d3371-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest D3371 Digital Transmission Analyzer operates across 10 MHz to 3.6 GHz and delivers precise characterization of digital communication systems through integrated pattern generation and error measurement. This instrument generates diverse test patterns - including PRBS, programmable, zero substitution, and STM frame patterns - at data rates up to 3.60 Gbps, supporting evaluation of Gigabit Ethernet and SONET/SDH links. The D3371 combines a pulse pattern generator with error measurement functions in a single platform, eliminating the need for separate test equipment.Technical Specifications Signal Generation Frequency range: 10 MHz to

3.6 GHz Maximum data rate: 3.60 Gbps Pattern depth: 8 Mbit Output voltage: 2 Vp-p or 3 Vp-p (selectable via options) Output mode: NRZ, DC coupled Output paths: 2 (DATA and DATA) Synthesized clock generator: 10 MHz to 3.6 GHz Clock Input Specifications Input amplitude: 0.5 to 2 Vp-p Input impedance: 50 Ω nominal Waveform: Rectangular wave (10 to 175 MHz); rectangular or sine wave (175 MHz to 3.6 GHz) Duty ratio: 50 ± 5% Connector: SMA female Measurement Capabilities Error rate measurement Error count measurement Error interval measurement Error-free interval measurement Frequency measurement Error performance measurementKey Features 10.4-inch TFT LCD display with 800 × 600 resolution and touch panel control Windows 98 Second Edition operating system with 128 MB main memory 6 GB hard disk and 1.44 MB floppy disk storage Trigger modes: 1/8 clock, 1/32 clock, pattern phase, frames, and flexible GPIB (IEEE 488.2) and 10Base-T Ethernet remote control Parallel (D-sub 25) and USB (2 channels) connectivityTypical Applications Gigabit Ethernet testing and validation SONET/SDH system characterization Digital transmission link optimization Pattern generation for BER analysisCompatibility & Integration The instrument supports remote operation via GPIB and Ethernet interfaces, enabling integration into automated test environments. Standard connectorsSMA, IEEE 488.2 bus, and D-sub 25 - facilitate integration with existing laboratory systems.

D3371 Characteristics / Specifications

PARAMETER	VALUE
Clock Frequency Range	10 MHz to 3.6 GHz
Prbs Lengths	2^n minus 1 for n = 7 9 10 11 15 23 31
Programmable Pattern Length	1 to 8388608 bits
Mark Ratio	1/8 1/4 1/2 3/4 7/8 0/8 8/8
Ppg Amplitude Option	0.3 to 2 Vp-p 10 mV resolution to GND
Rise Fall Time	60 ps 10 to 90 percent at amplitude greater than or equal to 0.5 Vp-p
Clock Input Amplitude	0.5 to 2 Vp-p
Clock Input Impedance	50 ohm nominal to 0 V SMA female
Data Output Paths	2 paths DATA and DATA bar NRZ DC coupled SMA
Measurement Timebase Accuracy	plus or minus 10 ppm
Frequency Measurement Range	10000000 to 3600000000 Hz plus or minus 10 ppm plus or minus 1 kHz
Error Rate Display	0.0000 × 10^n format
Main Memory	128 MB
Display	10.4 inch TFT LCD 800 × 600 touch panel
Hard Disk	6 GB or more
Power Consumption	160 VA or below
Mass	21 kg or less without modules
Dimensions	approx 424 W x 221 H x 500 D mm
Operating Temperature	plus 5 to plus 40 C 40 to 85 percent RH
Line Power	100 to 120 VAC and 220 to 240 VAC 50/60 Hz auto
Remote Interface	GPIB IEEE 488.2 Ethernet 10 Base-T USB
Error Addition	Repeat Single and External routes 1 to 16

D3371 Specifications

PARAMETER	VALUE
Advantest D3371 Digital Transmission Analyzer	Overview
Applications	BERT of 3.6 Gbit/s class optical and electrical devices, STM-4/STM-16 framed patterns, and production error-performance test.
Key Features	10 MHz to 3.6 GHz variable rate
Technical Specifications	Clock Frequency Range: 10 MHz to 3.6 GHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 5 to plus 40 C 40 to 85 percent RH
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Error Addition	Repeat Single and External routes 1 to 16 Notes From Advantest D3371-3E March 2002 specification tables. PPG option 10 is 2 Vp-p, option 11 is 3 Vp-p; option 12 is the error-detector module.

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 analyzer for SONET/SDH, Fibre Channel, and Gigabit Ethernet devices. OEM D3371-3E tables list PRBS 2^n-1 n=7 to 31, programmable patterns to 8 388 608 bits, 2 Vp-p or 3 Vp-p PPG modules, 60 ps rise time, and a 424 x 221 x 500 mm 21 kg Windows mainframe.

Applications
BERT of 3.6 Gbit/s class optical and electrical devices, STM-4/STM-16 framed patterns, and production error-performance test.

Key Features
10 MHz to 3.6 GHz variable rate
8 Mbit programmable memory
2 Vp-p or 3 Vp-p PPG options
Touch panel 10.4 inch TFT
GPIB Ethernet USB

Technical Specifications

Technical Specifications

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Notes

From Advantest D3371-3E March 2002 specification tables. PPG option 10 is 2 Vp-p, option 11 is 3 Vp-p; option 12 is the error-detector module.

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

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