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Data Sheet

August 13, 2026

AGILENT / HP / KEYSIGHT

Agilent HP Keysight M8030A Multi-Channel BERT

Keysight M8030A Multi-Channel J-BERT System up to 16.2 Gb/s The Keysight M8030A is a multi-channel BERT platform for J-BERT applications needing more than four lanes. Hosted in a 14-slot AXIe chassis with M8041A/M8051A generator/analyzer modules, it supports up to 10 pattern-generator and 10 analyzer channels at data rates to 8.5 Gb/s or 16.2 Gb/s for multi-port PCIe, PON, and ATE-style receiver characterization. The Keysight M8030A is a multi-channel BERT platform for J-BERT applications needing more than four lanes. Hosted in a 14-slot AXIe chassis with M8041A/M8051A generator/analyzer modules, it supports up to 10 pattern-generator and 10 analyzer channels at data rates to 8.5 Gb/s or 16.2 Gb/s for multi-port PCIe, PON, and ATE-style receiver characterization.



MODEL

**Agilent / HP /
Keysight M8030A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M8030A

LISTING

<https://aumictechlabs.com/products/m8030a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent HP Keysight M8030A Multi-Channel BERT is a modular test instrument for characterization, verification, and compliance testing of high-speed digital interfaces. Operating up to 16 Gb/s, it supports up to 10 BERT channels within a 14-slot AXIe chassis, enabling simultaneous multi-channel measurements across chips, devices, boards, and systems with multiple I/O ports. Part of the Keysight M8000 Series of BER Test Solutions, the M8030A delivers advanced error analysis with integrated jitter injection, de-emphasis, clock recovery, and

equalization capabilities per channel. Technical Specifications Data rates up to 16 Gb/s (8.5 Gb/s and 16.2 Gb/s variants supported) Up to 10 BERT pattern generator and analyzer channels 14-slot AXIe chassis compatibility Integrated 8-tap de-emphasis with positive and negative adjustments per channel Jitter injection: RJ, PJ1, PJ2, SJ, BUJ, sinusoidal level interference (common-mode and differential-mode), SSC (triangular and arbitrary residual), and clock/2 Adjustable jitter and Intersymbol Interference (ISI) per channel Individual channel de-skewing and clock synchronization across all channels Built-in clock recovery and equalization per channel PCIe Gen 2 data bus for AXIe chassis communication Key Features PCI Express link training support Individually adjustable generator channel delay and pattern sequence Pattern sequencer for burst package generation Eye diagram measurements (color-coded), eye-contour analysis, output timing, output level, and jitter tolerance per channel Bit error ratio measurements for individual channel analysis Typical Applications R&D and manufacturing test of high-speed digital interfaces, multi-port device characterization, real-world application condition testing, and compliance validation across multiple I/O channels simultaneously. Compatibility & Integration Controlled via Keysight M8070A system software, compatible with M8020A J-BERT modules (M8041A and M8051A). Software extensible through plug-in modules and custom IronPython control for external DUTs. Requires AXIe chassis such as the Keysight M9514A.

Features & description

From manufacturer datasheet

Features

• Data rates to 8.5 Gb/s and 16.2 Gb/s per channel options • Up to 10 PG and 10 analyzer channels in 14-slot AXIe • Calibrated jitter injection RJ PJ SJ BUJ SSC and level interference • 8-tap positive/negative de-emphasis and adjustable ISI • Built-in CDR equalization and interactive PCIe link training • Reuses M8041A/M8051A J-BERT M8020A ecosystem modules

Applications

• Multi-lane receiver compliance and characterization to 16 Gb/s • PCIe link training and stressed-eye receiver tests • PON and multi-port SERDES BER testing • Compact AXIe-integrated multi-channel BERT racks

M8030A Characteristics / Specifications

PARAMETER	VALUE
Model	M8030A
Manufacturer	Keysight
Instrument Type	Multi Channel BERT System
Alias	M8030A; Keysight M8030A Multi-Channel BERT; J-BERT multi channel
Maximum data rate option	16.2 Gb/s
Alternate data rate option	8.5 Gb/s
Maximum pattern generator channels	10
Maximum analyzer channels	10
Chassis type	14 slot AXIe
First BERT module family	M8041A 3 slot AXIe
Expansion BERT module family	M8051A 2 slot AXIe
M8041A C08 option	BERT one channel to 8.5 Gb/s
M8041A C16 option	BERT one channel to 16 Gb/s
M8041A G08 option	pattern generator one channel to 8.5 Gb/s
M8041A G16 option	pattern generator one channel to 16 Gb/s
M8051A C08 option	BERT one channel to 8.5 Gb/s
M8051A C16 option	BERT one channel to 16 Gb/s
Jitter injection types	RJ PJ1 PJ2 SJ BUJ SSC clock/2
Level interference	common mode and differential sinusoidal
De emphasis taps	8 positive and negative
ISI	integrated adjustable per channel
Clock synchronization	across all modules
Link training	interactive PCI Express
CDR	built-in clock recovery
Equalization	built-in

PARAMETER	VALUE
Channel delay	individually adjustable per generator
Pattern sequencing	individually adjustable
Upgrade path	options and modules upgradeable
Related compact JBERT	M8020A up to 4 channels
Publication number	5992-1287EN
Lane count maximum	10
Impairment suite	jitter de emphasis ISI per channel Notes Architecture and rate/channel limits from Keysight M8030A Multi-Channel BERT data sheet 5992-1287EN. Confirm installed M8041A/M8051A options (C08/C16) and AXIe chassis slot population.
Data Rate	option: 16.2 Gb/s

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	
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M8051A C08 option	BERT one channel to 8.5 Gb/s
M8051A C16 option	BERT one channel to 16 Gb/s
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De emphasis taps	8 positive and negative
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Notes

Architecture and rate/channel limits from Keysight M8030A Multi-Channel BERT data sheet 5992-1287EN. Confirm installed M8041A/M8051A options (C08/C16) and AXIe chassis slot population.

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.