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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight J7230A

HP Agilent J7230A OmniBER OTN 10 Gb/s Communications Analyzer The Agilent J7230A is the OmniBER OTN 10 Gb/s communications performance analyzer. OEM OmniBER OTN datasheets list all standard telecom rates from 1.5 Mb/s through 10 Gb/s (DS1 to OC-192/STM-64), plus optical-channel OTU-1 at 2.66 Gb/s and OTU-2 at 10.71 Gb/s to ITU-T G.709. Transmitter and receiver cover those rates. Unframed PRBS is available at all rates. The analyzer provides G.709 FEC analysis, OTU-1/OTU-2 frame capture, and structured SONET/SDH to 10 Gb/s. The Agilent J7230A is the OmniBER OTN 10 Gb/s communications performance analyzer. OEM OmniBER OTN datasheets list all standard telecom rates from 1.5 Mb/s through 10 Gb/s (DS1 to OC-192/STM-64), plus optical-channel OTU-1 at 2.66 Gb/s and OTU-2 at 10.71 Gb/s to ITU-T G.709. Transmitter and receiver cover those rates. Unframed PRBS is available at all rates. The analyzer provides G.709 FEC analysis, OTU-1/OTU-2 frame capture, and structured SONET/SDH to 10 Gb/s. Metro and long-haul SONET/SDH/OTN device test to OTU-2 10.71 Gb/s.


MODEL
**Agilent / Keysight
J7230A**
CALIBRATION
**Available on
request**
CONDITION
Used
STATUS
In stock
RFQ / SKU
J7230A
LISTING
<https://aumictechlabs.com/products/j7230a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight J7230A OmniBER OTN Communications Performance Analyzer is a test instrument for characterizing SONET/SDH and ITU-T G.709 Optical Transport Network devices. The analyzer generates and measures Bit Error Rate (BER) across optical and electrical interfaces,

performs overhead testing, simulates Forward Error Correction, and captures OTU frames for production and laboratory environments.

Technical Specifications

Supported Standards

SONET/SDH (Telcordia GR-253) ITU-T G.707 ITU-T G.709 Optical Transport Network (OTN) Line Rates

Optical interface: 52 Mb/s to 10.71 Gb/s Electrical interface: 1.5 Mb/s to 140 Mb/s OTN rates: OTU1 at 2.66 Gb/s, OTU2 at 10.71 Gb/s

Unframed PRBS: 52 Mb/s to 10 Gb/s (SONET/SDH); 2.66 Gb/s or 10.71 Gb/s (OTN)

Concatenation Support Standard: STS-3c/AU-4, STS-12c/AU-4-4c, STS-48c/AU-4-16c Arbitrary: STS-6c/AU-4-2c, STS-9c/AU-4-3c, STS-24c/AU-4-8c

Optical Interfaces

FC/PC connectors (Option 609) Side-mounted connectors (Option 004) Rear-mounted connectors available

Wavelengths: 1310 nm and 1550 nm transmitter options

Key Features

Simultaneous monitoring of up to 192 STS/AU channels Overhead setup and monitoring across all SONET/SDH/OTN overhead bytes FEC checking independent control on transmitter and receiver for framed OTUk signals APS service disruption measurements Alarm status monitoring with error reporting per channel

Framed mode: generates signals per Telcordia GR-253, ITU-T G.707, and G.709 Unframed mode: PRBS testing at all supported standard rates

Network-realistic mixed mapping support

Typical Applications

Device verification and interoperability testing. Production acceptance testing. Channel characterization for optical equipment.

Compatibility & Integration

Electrical interface testing available with DS_n/PDH framed and unframed modes via Option 012. Supports contiguous and arbitrary concatenation for flexible test configurations.

J7230A Characteristics / Specifications

PARAMETER	VALUE
Model	J7230A
Instrument Type	OmniBER OTN 10 Gb/s analyzer
Family	Agilent OmniBER OTN
Maximum Rate	10.71 Gb/s OTU-2
Otu1 Rate	2.66 Gb/s OTU-1
Sonet Sdh Maximum	OC-192 / STM-64 10 Gb/s
Electrical Start Rate	1.5 Mb/s DS1
Optical Start Rate	1.5 Mb/s through 10 Gb/s DS1 to OC-192/STM-64
Standard	ITU-T G.709 optical channel
Prbs	unframed PRBS at all rates
Fec	G.709-compliant OTU testing with FEC analysis
Frame Capture	OTU-1 and OTU-2 frame capture
Related Jitter Analyzer	J7231B OmniBER OTN jitter analyzer to 10.71 Gb/s
Related 2p5 Analyzer	J7232A OmniBER OTN 2.5 Gb/s analyzer
Jitter Standard Class	ITU-T O.172 test-equipment class on J7231B
Form Factor	OmniBER OTN analyzer mainframe
Manufacturer	Agilent Keysight HP
Use Case	OTN/SONET/SDH production and R&D test
Literature	Agilent OmniBER OTN datasheet J7230A
Concatenation Class	virtual concatenation / GFP/LAPS family on OmniBER OTN 2.5G
Documentation Type	OEM OmniBER OTN datasheet
Brand Lineage	HP Agilent Keysight OmniBER OTN
System Role	10 Gb/s OTN analyzer

J7230A Specifications

PARAMETER	VALUE
Applications	Metro and long-haul SONET/SDH/OTN device test to OTU-2 10.71 Gb/s.
Key Features	DS1 to OC-192/STM-64
Unframed PRBS at all rates	Companion J7231B jitter analyzer
Technical Specifications	Model: J7230A

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. OEM OmniBER OTN datasheets list all standard telecom rates from 1.5 Mb/s through 10 Gb/s (DS1 to OC-192/STM-64), plus optical-channel OTU-1 at 2.66 Gb/s and OTU-2 at 10.71 Gb/s to ITU-T G.709. Transmitter and receiver cover those rates. Unframed PRBS is available at all rates. The analyzer provides G.709 FEC analysis, OTU-1/OTU-2 frame capture, and structured SONET/SDH to 10 Gb/s.

Applications

Metro and long-haul SONET/SDH/OTN device test to OTU-2 10.71 Gb/s.

Key Features

DS1 to OC-192/STM-64

OTU-1 2.66 Gb/s and OTU-2 10.71 Gb/s

ITU-T G.709 FEC analysis

Unframed PRBS at all rates

Companion J7231B jitter analyzer

Technical Specifications

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Standard	ITU-T G.709 optical channel
Prbs	unframed PRBS at all rates
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Notes

From Agilent OmniBER OTN datasheet J7230A (1.5 Mb/s to 10 Gb/s, OTU-1 2.66 Gb/s, OTU-2 10.71 Gb/s, G.709 FEC). Optical power, jitter masks, and mapping options are in the OmniBER OTN technical specifications.

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.