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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight J1409A

HP Agilent J1409A OmniBER 725 Communications Analyzer with Jitter The Agilent J1409A is the OmniBER 725 communications performance analyzer with jitter testing. OEM OmniBER 725 quick-start literature lists framed and unframed SDH/SONET BER testing up to 2.5 Gb/s (STM-16/OC-48) with J1408, and the addition of jitter testing with J1409A. Optical and electrical interfaces are provided. Separate clock and data binary interfaces are electrically coded at 52 Mb/s, 155 Mb/s, 625 Mb/s, and 2.5 Gb/s. Concatenated payload testing is supported up to STM-16c/OC-48c. The Agilent J1409A is the OmniBER 725 communications performance analyzer with jitter testing. OEM OmniBER 725 quick-start literature lists framed and unframed SDH/SONET BER testing up to 2.5 Gb/s (STM-16/OC-48) with J1408, and the addition of jitter testing with J1409A. Optical and electrical interfaces are provided. Separate clock and data binary interfaces are electrically coded at 52 Mb/s, 155 Mb/s, 625 Mb/s, and 2.5 Gb/s. Concatenated payload testing is supported up to STM-16c/OC-48c. SONET/SDH BER, protection-switch, pointer, and jitter tests to 2.5 Gb/s.

**MODEL****Agilent / Keysight
J1409A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****J1409A****LISTING**<https://aumictechlabs.com/products/j1409a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight J1409A OmniBER 725 Communications Performance Analyzer delivers specialized SONET/SDH testing and characterization for network components and systems. This instrument performs bit error rate (BER) testing, jitter generation and measurement, and overhead data

analysis across multiple telecommunications rates - from 52 Mb/s through 2.5 Gb/s. It generates unframed Pseudo-Random Binary Sequence (PRBS) patterns and supports full SDH functionality at STM-16, STM-4, STM-1, and STM-0, plus complete SONET capability at OC-48, OC-12, OC-3, OC-1, STS-3, and STS-1. Jitter measurements conform to ITU-T O.171 and O.172 standards with high accuracy and repeatability. The analyzer includes payload concatenation support, full overhead access and analysis, and both optical and electrical interfaces. SmartSetup and SmartTest capabilities accelerate setup and test execution. Remote control operates via GPIB, LAN, or RS-232. Note: This is a discontinued product.

Technical Specifications

Data Rates: 2.5 Gb/s, 622 Mb/s, 155 Mb/s, 52 Mb/s for PRBS generation and jitter testing

SDH Support: STM-16, STM-4, STM-1, STM-0

SONET Support: OC-48, OC-12, OC-3, OC-1, STS-3, STS-1

Jitter Conformance: ITU-T O.171 and O.172

Interface Types: Optical and electrical at all supported rates to 2.5 Gb/s

Key Features

- Unframed PRBS generation across full rate range
- Jitter generation and measurement with high repeatability
- Full overhead access and analysis
- Payload concatenation support
- SmartSetup and SmartTest operation modes
- Integrated display for direct monitoring

Typical Applications

- SONET/SDH network component testing
- Telecommunications system characterization
- BER analysis and validation
- Jitter generation for stress testing

Compatibility & Integration

- VXIplug&play driver support
- Remote control: GPIB, LAN, RS-232
- Rack-mount and benchtop configurations
- Detailed user manuals and quick reference guides provided

J1409A Characteristics / Specifications

PARAMETER	VALUE
Model	J1409A
Instrument Type	OmniBER 725 communications performance analyzer
Family	Agilent OmniBER 720/725
Maximum Rate	2.5 Gb/s STM-16 / OC-48
Jitter	jitter testing included on J1409A
Related Ber Only	J1408 framed/unframed SDH/SONET BER to 2.5 Gb/s
Binary Rates	52 Mb/s, 155 Mb/s, 625 Mb/s, and 2.5 Gb/s clock and data
Concatenated Payload	up to STM-16c / OC-48c
Interfaces	optical and electrical
Measurements	protection switching tests and pointer processing
Smart Tests	signal quality, functional tests, jitter tests, settings
Alarms	FRAME LOSS, LOP, AIS-L, AIS-P, CLOCK LOSS, Path RDI, AIS-V, RDI-V, POINTER ADJUST
Form Factor	portable OmniBER analyzer
Manufacturer	Agilent Keysight HP
Use Case	SONET/SDH BER and jitter to 2.5 Gb/s
Control	OmniBER Smartsetup auto-discover
Literature	Agilent J1409A OmniBER 725 Quick Start Guide
Related Analyzer	J1407A OmniBER 725 family analyzer
Documentation Type	OEM OmniBER 725 quick start
Brand Lineage	HP Agilent Keysight OmniBER
System Role	2.5 Gb/s BER plus jitter
Standards Class	SDH/SONET

J1409A Specifications

PARAMETER	VALUE
Applications	SONET/SDH BER, protection-switch, pointer, and jitter tests to 2.5 Gb/s.
Key Features	BER to 2.5 Gb/s STM-16/OC-48
Optical and electrical interfaces	Concatenated STM-16c/OC-48c
Technical Specifications	Model: J1409A

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 with jitter testing. OEM OmniBER 725 quick-start literature lists framed and unframed SDH/SONET BER testing up to 2.5 Gb/s (STM-16/OC-48) with J1408, and the addition of jitter testing with J1409A. Optical and electrical interfaces are provided. Separate clock and data binary interfaces are electrically coded at 52 Mb/s, 155 Mb/s, 625 Mb/s, and 2.5 Gb/s. Concatenated payload testing is supported up to STM-16c/OC-48c.

Applications

SONET/SDH BER, protection-switch, pointer, and jitter tests to 2.5 Gb/s.

Key Features

BER to 2.5 Gb/s STM-16/OC-48

Jitter testing on J1409A

Optical and electrical interfaces

Concatenated STM-16c/OC-48c

Smart Test setup

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	J1409A
Instrument Type	OmniBER 725 communications performance analyzer
Family	Agilent OmniBER 720/725
Maximum Rate	2.5 Gb/s STM-16 / OC-48
Jitter	jitter testing included on J1409A
Related Ber Only	J1408 framed/unframed SDH/SONET BER to 2.5 Gb/s
Binary Rates	52 Mb/s, 155 Mb/s, 625 Mb/s, and 2.5 Gb/s clock and data
Concatenated Payload	up to STM-16c / OC-48c
Interfaces	optical and electrical
Measurements	protection switching tests and pointer processing
Smart Tests	signal quality, functional tests, jitter tests, settings
Alarms	FRAME LOSS, LOP, AIS-L, AIS-P, CLOCK LOSS, Path RDI, AIS-V, RDI-V, POINTER ADJUST
Form Factor	portable OmniBER analyzer
Manufacturer	Agilent Keysight HP
Use Case	SONET/SDH BER and jitter to 2.5 Gb/s
Control	OmniBER Smartsetup auto-discover
Literature	Agilent J1409A OmniBER 725 Quick Start Guide
Related Analyzer	J1407A OmniBER 725 family analyzer

PARAMETER	VALUE
Documentation Type	OEM OmniBER 725 quick start
Brand Lineage	HP Agilent Keysight OmniBER
System Role	2.5 Gb/s BER plus jitter
Standards Class	SDH/SONET

Notes

From Agilent J1409A OmniBER 725 Quick Start (2.5 Gb/s STM-16/OC-48, jitter on J1409A, binary rates, concatenated payloads, Smart Tests). Jitter amplitude/frequency masks and optical power ranges are in the OmniBER 725 specification binder.

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.