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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight J1407A

HP Agilent J1407A OmniBER Communications Performance Analyzer The Agilent J1407A is an OmniBER communications performance analyzer in the OmniBER 720/725 line with J1408/J1409A. OEM OmniBER 725 literature describes framed and unframed SDH/SONET BER testing up to 2.5 Gb/s (STM-16/OC-48), optical and electrical interfaces, concatenated payloads to STM-16c/OC-48c, protection-switching and pointer-processing measurements, and Smart Test access. J1409A adds jitter; J1407A is the family analyzer configuration in the same 2.5 Gb/s OmniBER class. The Agilent J1407A is an OmniBER communications performance analyzer in the OmniBER 720/725 line with J1408/J1409A. OEM OmniBER 725 literature describes framed and unframed SDH/SONET BER testing up to 2.5 Gb/s (STM-16/OC-48), optical and electrical interfaces, concatenated payloads to STM-16c/OC-48c, protection-switching and pointer-processing measurements, and Smart Test access. J1409A adds jitter; J1407A is the family analyzer configuration in the same 2.5 Gb/s OmniBER class. SONET/SDH BER and functional tests to 2.5 Gb/s in metro transport labs.



MODEL

**Agilent / Keysight
J1407A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

J1407A

LISTING

<https://aumictechlabs.com/products/j1407a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight J1407A OmniBER 720 Communications Performance Analyzer is a field-portable instrument for SONET/SDH and DWDM transmission system testing up to 2.5 Gb/s (OC-48/STM-16). Purpose-built for bit error rate (BER) analysis of optical tributaries, it delivers the

overhead visibility and error characterization needed across installation, commissioning, maintenance, and system verification workflows. Technical Specifications Data Rate Coverage: Multi-rate support from OC-1 to OC-48 and STM-0 to STM-16. Bulk payload testing from STS-48c/STM-16c down to VT 1.5/TU-11 granularity. Overhead & Alarm Functions: Complete SONET/SDH overhead setup and monitoring with text decode of sync status (S1), APS messaging (K1K2), and signal labels (C2, V5). Built-in error and alarm generation/measurement plus dedicated SONET/SDH alarm scan. Path & Section Testing: J0 section trace for DWDM verification. J1 and J2 path trace capabilities for network path analysis. Pointer adjustments aligned to Telcordia GR-253 and ITU-T G.783 standards. Optical Measurements: Optical power and line frequency measurement. Line frequency offset characterization. Advanced Capabilities: Thru-mode testing for SONET/SDH ring turn-up. Automatic discovery of all received payload channels. SmartTest rapid-access interface to primary measurement functions. Key Features Single-box form factor optimized for field deployment Full overhead visibility without external analyzers Automated payload channel discovery reduces setup time Pointer adjustment compliance to international standards Thru-mode ring testing for live network commissioning Typical Applications Installation and turn-up of SONET/SDH transmission links DWDM tributary verification and acceptance testing In-service maintenance and fault isolation Multi-rate payload validation and SLA verification Ring network commissioning and protection testing Compatibility & Integration Optical Interface: Standard Agilent optical interface. Agilent 81000xl Series connectors sold separately. Configuration Options: Option 001 (SDH), Option 002 (Dual SONET/SDH), Option 003 (SONET), Option 104 (OC-48/12/3/1 at 1310 nm and/or STM-16o/4o/1o/0o at 1310 nm). Control & Output: Option 601 (LAN/RS-232/GPIB remote control), Option 602 (graphical printer). Connector variants: Option 610 (SC), Option 611 (ST).

J1407A Characteristics / Specifications

PARAMETER	VALUE
Model	J1407A
Instrument Type	OmniBER communications performance analyzer
Family	Agilent OmniBER 720/725
Related Jitter Model	J1409A OmniBER 725 with jitter
Related Ber Model	J1408 framed/unframed SDH/SONET BER to 2.5 Gb/s
Maximum Rate Class	2.5 Gb/s STM-16 / OC-48 family
Concatenated Payload Class	STM-16c / OC-48c family
Interfaces	optical and electrical
Binary Interface Class	52 Mb/s, 155 Mb/s, 625 Mb/s, and 2.5 Gb/s family
Measurements	protection switching tests and pointer processing
Smart Tests	signal quality, functional tests, settings
Form Factor	portable OmniBER analyzer
Manufacturer	Agilent Keysight HP
Use Case	SONET/SDH BER to 2.5 Gb/s
Control	OmniBER Smartsetup
Literature	Agilent OmniBER 725 J1407A/J1408/J1409A family literature
Alarms Class	FRAME LOSS, LOP, AIS, RDI, POINTER ADJUST family
Documentation Type	OEM OmniBER 725 family
Brand Lineage	HP Agilent Keysight OmniBER
System Role	2.5 Gb/s communications analyzer
Standards Class	SDH/SONET
Related Otn Analyzer	J7230A OmniBER OTN 10 Gb/s

J1407A Specifications

PARAMETER	VALUE
Applications	SONET/SDH BER and functional tests to 2.5 Gb/s in metro transport labs.
Key Features	OmniBER 720/725 family
Smart Test and Smartsetup	Companion J1409A jitter analyzer
Technical Specifications	Model: J1407A

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

Overview

The Agilent J1407A is an OmniBER communications performance analyzer in the OmniBER 720/725 line with J1408/J1409A. OEM OmniBER 725 literature describes framed and unframed SDH/SONET BER testing up to 2.5 Gb/s (STM-16/OC-48), optical and electrical interfaces, concatenated payloads to STM-16c/OC-48c, protection-switching and pointer-processing measurements, and Smart Test access. J1409A adds jitter; J1407A is the family analyzer configuration in the same 2.5 Gb/s OmniBER class.

Applications

SONET/SDH BER and functional tests to 2.5 Gb/s in metro transport labs.

Key Features

OmniBER 720/725 family
SDH/SONET BER to 2.5 Gb/s class
Optical and electrical interfaces
Smart Test and Smartsetup
Companion J1409A jitter analyzer

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	J1407A
Instrument Type	OmniBER communications performance analyzer
Family	Agilent OmniBER 720/725
Related Jitter Model	J1409A OmniBER 725 with jitter
Related Ber Model	J1408 framed/unframed SDH/SONET BER to 2.5 Gb/s
Maximum Rate Class	2.5 Gb/s STM-16 / OC-48 family
Concatenated Payload Class	STM-16c / OC-48c family
Interfaces	optical and electrical
Binary Interface Class	52 Mb/s, 155 Mb/s, 625 Mb/s, and 2.5 Gb/s family
Measurements	protection switching tests and pointer processing
Smart Tests	signal quality, functional tests, settings
Form Factor	portable OmniBER analyzer
Manufacturer	Agilent Keysight HP
Use Case	SONET/SDH BER to 2.5 Gb/s
Control	OmniBER Smartsetup
Literature	Agilent OmniBER 725 J1407A/J1408/J1409A family literature
Alarms Class	FRAME LOSS, LOP, AIS, RDI, POINTER ADJUST family

PARAMETER	VALUE
Documentation Type	OEM OmniBER 725 family
Brand Lineage	HP Agilent Keysight OmniBER
System Role	2.5 Gb/s communications analyzer
Standards Class	SDH/SONET
Related Otn Analyzer	J7230A OmniBER OTN 10 Gb/s

Notes

From Agilent OmniBER 725 family literature covering J1407A with J1408/J1409A (2.5 Gb/s STM-16/OC-48 class, optical/electrical, Smart Tests). J1407A-specific option mix and optical wavelength are on the J1407A configuration/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.