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Data Sheet

August 13, 2026

AGILENT / HP

Agilent HP J7232A OmniBer OTN Opt.004, 012, 106, 325, 609, CFG 003

Agilent HP J7232A OmniBER OTN 2.5 Gb/s Communications Performance Analyzer The Agilent/HP J7232A OmniBER OTN is a 2.5 Gb/s communications performance analyzer for next-generation SONET/SDH with Ethernet over SONET/SDH (GFP/LAPS), virtual concatenation, LCAS, and comprehensive BER/overhead analysis. It supports line rates from 1.5 Mb/s to 2.488 Gb/s with optional optical interfaces. The Agilent/HP J7232A OmniBER OTN is a 2.5 Gb/s communications performance analyzer for next-generation SONET/SDH with Ethernet over SONET/SDH (GFP/LAPS), virtual concatenation, LCAS, and comprehensive BER/overhead analysis. It supports line rates from 1.5 Mb/s to 2.488 Gb/s with optional optical interfaces.



MODEL Agilent / HP J7232A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU J7232A	LISTING https://aumictechlabs.com/products/j7232a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent HP J7232A OmniBER OTN is a communications performance analyzer purpose-built for testing Optical Transport Network (OTN) and SONET/SDH devices. It delivers comprehensive performance verification across ITU-T G.709 optical channel standards, SONET/SDH mappings, and concatenations. Supporting data rates from 1.5 Mb/s to 10.71 Gb/s, the analyzer enables end-to-end validation of transport infrastructure with integrated jitter, wander, and encapsulation

analysis. Technical Specifications Data Rates: 1.5 Mb/s to 10 Gb/s; OTU-1 at 2.66 Gb/s; OTU-2 at 10.71 Gb/s; standard telecom rates 52 Mb/s to 2.5 Gb/s (optical); 52 Mb/s and 155 Mb/s (electrical) Standards: ITU-T G.709 OTN, SONET/SDH, DSn/PDH (with optional configurations) Jitter Testing: High-accuracy measurement to 10.71 Gb/s; compliant with ITU-T O.172 (SONET/SDH) and ITU-T O.173 (OTN) Wander Testing: 52 Mb/s to 10 Gb/s with MTIE/TDEV analysis Differential Delay: Full G.707 generation and measurement up to 256 ms Channel Monitoring: Simultaneous monitoring of up to 192 STS/AU channels Key Features OTU2 optical channel support with Forward Error Correction (FEC) simulation and frame capture Signal Wizard: simultaneous BER and alarm monitoring across all SONET/SDH STS/AU channels SONET/SDH APS service disruption measurements with network-realistic mixed mapping Contiguous concatenation support for SONET/SDH configurations Ethernet payload mapping with GFP (G.7041) and LAPS (X.86) encapsulation simulation and analysis Virtual Concatenation (G.707) and LCAS (G.7042) emulation for high and low order paths Programmable jitter tolerance and transfer function Parallel jitter measurements for accelerated testing Encapsulation Analyzer with detailed client data capture for complex troubleshooting Thru-Mode monitoring capability Typical Applications OTN transport layer validation and performance characterization SONET/SDH network infrastructure testing and device verification Jitter and wander compliance testing against ITU-T standards Service activation and network acceptance testing payload encapsulation analysis Compatibility & Integration Available in multiple configurations: mainframe with side-mounted connectors (J7232A-004); DSn/PDH electrical and framed/unframed testing capability (J7232A-012); multirate SONET/SDH optical testing (J7232A-104). Additional options support enhanced optical and electrical interface requirements.

Features & description

From manufacturer datasheet

Features

• Line rates 1.5 Mb/s to 2.488 Gb/s on J7232A platform • GFP G.7041 and LAPS X.86 encapsulation simulation and analysis • High and low order VCAT G.707 and LCAS G.7042 • Differential delay generation and measurement to 256 ms • Arbitrary contiguous concatenations STS-6c/9c/24c class • Simultaneous all-channel STS/AU BER and alarm monitoring • Modular optical 1310/1550 nm options for 52 to 2488 Mb/s

Applications

• Next-generation SONET/SDH MSPP and MSSP verification to 2.5 Gb/s • Ethernet over SONET/SDH GFP and LAPS interoperability testing • VCAT and LCAS differential delay and concatenation qualification • Multi-channel Signal Wizard BER and alarm monitoring

J7232A Characteristics / Specifications

PARAMETER	VALUE
Model	J7232A
Manufacturer	Agilent / HP / Keysight
Instrument Type	OmniBER OTN 2.5 Gb/s Communications Performance Analyzer
Alias	J7232A; OmniBER OTN J7232A
Maximum line rate	2.488 Gb/s
Minimum line rate class	1.5 Mb/s
SONET rates	OC-1 / OC-3 / OC-12 / OC-48 class with options
SDH rates	STM-0 / STM-1 / STM-4 / STM-16 class with options
Optical option 1	52 to 2488 Mb/s 1310/1550 nm
GFP support	ITU-T G.7041
LAPS support	ITU-T X.86
VCAT support	ITU-T G.707 high and low order
LCAS support	ITU-T G.7042
Differential delay max	256 ms
Connector option 6	FC/PC optical connectors exchangeable
Connector mounting option 0	side mounted connectors
Signal Wizard	simultaneous BER and alarm on all STS/AU channels
APS disruption measurement	SONET/SDH service disruption
Electrical interfaces class	STS-1/3 STM-0/1e and PDH/DSn with options
Upgrade path	J7820A upgrade kits
Family	OmniBER OTN Notes Specs from Agilent OmniBER OTN J7232A/J7230B technical data and configuration listings. Confirm optical wavelength options and next-gen software options on the unit.

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/HP J7232A OmniBER OTN is a 2.5 Gb/s communications performance analyzer for next-generation SONET/SDH with Ethernet over SONET/SDH (GFP/LAPS), virtual concatenation, LCAS, and comprehensive BER/overhead analysis. It supports line rates from 1.5 Mb/s to 2.488 Gb/s with optional optical interfaces.

Applications

- Next-generation SONET/SDH MSPP and MSSP verification to 2.5 Gb/s
- Ethernet over SONET/SDH GFP and LAPS interoperability testing
- VCAT and LCAS differential delay and concatenation qualification
- Multi-channel Signal Wizard BER and alarm monitoring

Key Features

- Line rates 1.5 Mb/s to 2.488 Gb/s on J7232A platform
- GFP G.7041 and LAPS X.86 encapsulation simulation and analysis
- High and low order VCAT G.707 and LCAS G.7042
- Differential delay generation and measurement to 256 ms
- Arbitrary contiguous concatenations STS-6c/9c/24c class
- Simultaneous all-channel STS/AU BER and alarm monitoring
- Modular optical 1310/1550 nm options for 52 to 2488 Mb/s

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	J7232A
Manufacturer	Agilent / HP / Keysight
Instrument Type	OmniBER OTN 2.5 Gb/s Communications Performance Analyzer
Alias	J7232A; OmniBER OTN J7232A
Maximum line rate	2.488 Gb/s
Minimum line rate class	1.5 Mb/s
SONET rates	OC-1 / OC-3 / OC-12 / OC-48 class with options
SDH rates	STM-0 / STM-1 / STM-4 / STM-16 class with options
Optical option 104	52 to 2488 Mb/s 1310 nm
Optical option 106	52 to 2488 Mb/s 1310/1550 nm
GFP support	ITU-T G.7041
LAPS support	ITU-T X.86
VCAT support	ITU-T G.707 high and low order
LCAS support	ITU-T G.7042
Differential delay max	256 ms

Option 325: VCAT Ethernet over SONET/SDH mixed mappings
Option 320: Ethernet over SONET/SDH

Specifications

PARAMETER	VALUE
Connector option 610	SC optical connectors exchangeable
Connector option 609	FC/PC optical connectors exchangeable
Connector mounting option 004	side mounted connectors
Signal Wizard	simultaneous BER and alarm on all STS/AU channels
APS disruption measurement	SONET/SDH service disruption
Electrical interfaces class	STS-1/3 STM-0/1e and PDH/DSn with options
Upgrade path	J7820A upgrade kits
Family	OmniBER OTN

Notes
Specs from Agilent OmniBER OTN J7232A/J7230B technical data and configuration listings. Confirm optical wavelength options and next-gen software options on the unit.

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.