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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 37719A

Agilent Keysight 37719A OmniBER 719 Communications Performance Analyzer The HP 37719A OmniBER 719 is the companion OmniBER 718/719 communications performance analyzer to the 37718A. OEM OmniBER 718/719 installation and verification documentation lists 37719A with the same PDH/SDH/SONET analysis class, optioned optical STM interfaces, and jitter paths. Higher-rate or differently optioned OmniBER transport testing versus 37718A; PDH/SDH BER and jitter on optioned configurations. Shared 718/719 installation and verification manual The HP 37719A OmniBER 719 is the companion OmniBER 718/719 communications performance analyzer to the 37718A. OEM OmniBER 718/719 installation and verification documentation lists 37719A with the same PDH/SDH/SONET analysis class, optioned optical STM interfaces, and jitter paths. Higher-rate or differently optioned OmniBER transport testing versus 37718A; PDH/SDH BER and jitter on optioned configurations. Shared 718/719 installation and verification manual Optioned optical STM-1/STM-4 class interfaces



MODEL

**Agilent / Keysight
37719A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

37719A

LISTING

<https://aumictechlabs.com/products/37719a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 37719A OmniBER 719A is a portable communications performance analyzer engineered for SONET, ATM, POS, and T-carrier network testing. It delivers comprehensive BER and jitter measurement, generation, and analysis across multi-rate optical and electrical interfaces. Designed for installation, maintenance, and manufacturing environments, this single-

unit platform provides extensive test coverage for network elements, transmission systems, and ring turn-up operations.

Technical Specifications

Optical Interfaces Multi-rate support: 52 Mb/s, 155 Mb/s, 622 Mb/s, and 2.5 Gb/s (OC-1 through OC-48) Wavelengths: 1310 nm and 1550 nm Concatenated payload mapping: OC-3c, OC-12c, and OC-48c per GR.253

Electrical Interfaces SONET electrical: 52 Mb/s and 155 Mb/s T-carrier rates: DS1, DS3, E1, and E3

Measurement & Generation SONET: error and alarm generation, APS timing, mixed payload detection, pointer and overhead sequence generation T-carrier: DSn error and alarm generation and detection Jitter: generation and measurement from 2.5 Gb/s to T-carrier rates, supporting Telcordia GR-253, ITU-T G.825, G.958, O.171, and O.172 standards

Multiplexing/demultiplexing: 2.5 Gb/s down to $n \times 64$ or $n \times 56$ kb/s

Optical power measurement supported

Key Features Large color display with optional graphics printer output Integral 3.5-inch disk drive for test storage and firmware updates Full overhead access with sequence generation and capture Through-mode operation for SONET ring configuration Error, alarm, pointer, and in-service/out-of-service scan graphics Rugged portable design

Typical Applications SONET/SDH network element testing and validation ATM and Packet over SONET service verification Jitter tolerance and narrowband transfer testing T-carrier installation and maintenance Network protection switching performance analysis

Compatibility & Integration The 37719A supports upgradeable versions (37719B, 37719C) capable of OC-48 operation. Protocol coverage spans SONET, ATM, POS, and T-carrier technologies across both optical and electrical domains.

37719A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Communications performance analyzer
Series Family	HP OmniBER 718/719 (37718A/37719A)
Analysis Domain	PDH, SDH/SONET, and optioned ATM/jitter
Unbalanced Interface Impedance Family	75 Ohm
Balanced Interface Family	120 Ohm at 2.048 Mbit/s class
Line Coding Family	AMI, HDB3, CMI by rate
Error Analysis	ITU-T G.821 / G.826 class error performance
Optical Interfaces Class	STM-1 and STM-4 optioned optical
Jitter Options Class	PDH and SDH jitter generation and measurement optioned
Remote Control Class	HP-IB, RS-232, LAN optioned
Documentation 37718A	HP OmniBER 718/719 installation and verification manual covering 37718A and 37719A
Form Factor	transportable communications analyzer
Predecessor Family	37717A/B/C multi-rate test sets
Overhead Monitoring	PDH and SDH overhead, parity, and alarms class
In Service Testing	monitor-point and in-service modes class of OmniBER
Pointer Generation	SDH pointer and overhead-access options class
Atm Option Class	ATM generation and measurement on optioned OmniBER units
Frequency Offset Class	SDH frequency-offset generation on electrical STM-1 options
Wander Class	wander and estimated slips on jitter-measurement options
Specification Ambient	laboratory ambient unless the OmniBER spec table states otherwise
User Interface	multi-rate patterned traffic generation and error analysis
Power	AC mains operated communications test set
Model	37719A OmniBER 719

37719A Specifications

PARAMETER	VALUE
Applications	Higher-rate or differently optioned OmniBER transport testing versus 37718A; PDH/SDH BER and jitter on optioned configurations.
Key Features	OmniBER 719 multi-rate PDH/SDH analyzer
Shared 718/719 installation and verification manual	Optioned optical STM-1/STM-4 class interfaces
Optioned PDH/SDH jitter	Remote control option class HP-IB/LAN/RS-232
Technical Specifications	Instrument Type: Communications performance analyzer

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

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Applications

Higher-rate or differently optioned OmniBER transport testing versus 37718A; PDH/SDH BER and jitter on optioned configurations.

Key Features

OmniBER 719 multi-rate PDH/SDH analyzer
Shared 718/719 installation and verification manual
Optioned optical STM-1/STM-4 class interfaces
Optioned PDH/SDH jitter
Remote control option class HP-IB/LAN/RS-232

Technical Specifications

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Notes

From HP OmniBER 718/719 installation and verification literature covering 37718A and 37719A. Confirm the 37719A option label for optical wavelength and jitter modules before applying STM-4 or jitter rows.

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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NIST-traceable calibration · SAM registered ·
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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.