


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3764A Digital Transmission Analyzer

Front panel local control with remote path class Instrument Family: HP Agilent 3764A Digital Transmission Analyzer Form Factor: rack or modular class per series Remote Interface Class: HP-IB/GPIB class on series Instrument Family: HP Agilent 3764A Digital Transmission Analyzer Form Factor: rack or modular class per series Remote Interface Class: HP-IB/GPIB class on series Series Literature: digital transmission analyzer



MODEL

HP / Agilent 3764A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3764A

LISTING

<https://aumictechlabs.com/products/3764a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 3764A is a portable digital transmission analyzer designed for error performance testing of high-speed digital transmission systems. It delivers pattern generation, error detection, and error analysis across multiple data rates and formats. Three versions accommodate different test requirements: the standard 140 Mb/s configuration, a multiple-frequency option supporting CEPT bit-rates of 2, 8, 34, and 140 Mb/s, and a jitter-capable version with timing jitter measurement at 140 Mb/s. The instrument serves design, development, commissioning, and maintenance workflows in telecommunications and data communication applications. Technical Specifications Generator Section Data rate range: 1 kbit/s to 170 Mbit/s (binary-NRZ); CMI at 139 Mb/s; HDB3 at 2, 8, and 34 Mb/s Internal clock: 139.264 MHz and 141.040 MHz crystal options External clock input: 1 kHz to 150 MHz (75 ohm) or 1 kHz to 170 MHz Offset clock tuning: ± 15 ppm fixed or continuously variable to ± 60 ppm Pattern library: PRBS ($2^{10}-1$, $2^{15}-1$, $2^{23}-1$), programmable

10- or 16-bit words, AIS, and two 1010 alternating patterns Jitter generation (Option 002):
Configurable jittered, CMI-coded, or binary output at 139.264 Mbit/s Receiver Section Recovered
clock: 139.264 Mbit/s ± 3 Mbit/s Key Features Single portable unit with HP-IB interface capability
Selectable data formats optimized for European digital hierarchies Error add facilities for stress
testing Zero substitution gating: PRBS patterns off for 1 to 999 clock periods post-trigger Internal
printer option (availability varies by unit) Typical Applications Design and development of digital
transmission equipment Commissioning of new transmission systems Maintenance and
troubleshooting of operational networks Compatibility & Integration HP-IB interface available for
remote control and automated test sequences.

3764A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	HP Agilent 3764A Digital Transmission Analyzer
Manufacturer	HP Agilent
Form Factor	rack or modular class per series
AC Powered	yes
Remote Interface Class	HP-IB/GPIB class on series
Local Control	front panel
Display	digital or analog meter class
Operating Temperature Class	laboratory
Cooling	forced air or convection class
Series Literature	digital transmission analyzer
Status Indicators	yes class
Self Test Path	configuration dependent
Calibration Path	HP procedures class
Protection Class	instrument specific protections
Input Output Isolation Class	per manual
Firmware Or Serial Prefix	determines exact table
Weight Class	series dependent
Size Class	series dependent
Power Consumption Class	series dependent
Safety Markings Class	IEC/UL era markings
Documentation	operating and service manuals required for numeric limits
Operating temperature	Class: laboratory
Output isolation	Class: per manual

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Cooling	forced air or convection class
Series Literature	digital transmission analyzer
Status Indicators	yes class
Self Test Path	configuration dependent
Calibration Path	HP procedures class
Protection Class	instrument specific protections
Input Output Isolation Class	per manual
Firmware Or Serial Prefix	determines exact table
Weight Class	series dependent
Size Class	series dependent
Power Consumption Class	series dependent
Safety Markings Class	IEC/UL era markings
Documentation	operating and service manuals required for numeric limits Notes Sparse public numeric tables for this exact suffix; rows state verified identity and series class. Confirm exact ratings on the faceplate, option list, and HP operating manual before quoting limits. Do not invent V/I/frequency numbers.

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.

Specifications	
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exact ratings on the faceplate, option list, and HP operating manual before quoting limits. Do not invent V/I/frequency numbers.

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.