

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 37741A

The HP 37741A is a handheld DS1/T1 tester providing full-size T1 generation and analysis in a palm-sized unit. OEM 37741A literature lists extensive T1 and FT1 signal generation and analysis, simplified line and path tests, addressable repeater control, and a large results screen with single-keystroke configuration. Tariffed T1/FT1 parameter measurement, line/path fault location, and addressable repeater control in the field. Handheld full T1 and FT1 generation and analysis Pairs with 37743A DS3 set via option H02 lid power/support Partner Power Option: 37743A option H02 in-lid support and power Supplied Cables Class: bantam single and dual cables Use Case: field T1 installation and maintenance Framing Class: T1/FT1 as implemented in 37741A firmware



MODEL

**Agilent / Keysight
37741A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

37741A

LISTING

<https://aumictechlabs.com/products/37741a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 37741A is a digital transmission analyzer engineered for comprehensive testing and evaluation of digital communication systems. It delivers advanced signal quality assessment, error performance measurement, and network synchronization analysis across multiple digital transmission standards. The instrument serves development, installation, and maintenance workflows in telecommunications infrastructure. Technical Specifications The 37741A functions as a dedicated digital transmission analyzer from Agilent/Keysight. Specific performance parameters for this model are detailed in the instrument's technical

documentation. Key Features Digital transmission analysis across multiple standards Signal quality evaluation and measurement Error performance testing capabilities Network synchronization assessment PC-standard I/O for system integration Connectivity & Integration The instrument supports standard Keysight connectivity options through the IO Libraries Suite, including GPIB, LAN, and USB interfaces for instrument control and configuration. Integration with Keysight/Agilent IO Libraries enables straightforward system automation and data acquisition workflows. Typical Applications The 37741A addresses telecommunications infrastructure development, field installation verification, and ongoing maintenance of digital transmission systems. Engineering and technical teams use this analyzer during design validation, system commissioning, and troubleshooting of digital communication networks.

37741A Characteristics / Specifications

PARAMETER	VALUE
Model	37741A
Instrument Type	handheld DS1 T1 tester
Primary Rate	1.544 Mb/s DS1
Fractional Support	FT1 generation and analysis
Test Types	line and path
Repeater Control	addressable repeater
User Interface	single keystroke configuration
Results Display	large handheld screen for all test results
Partner Ds3 Set	37743A DS3 test set
Partner Power Option	37743A option H02 in-lid support and power
Supplied Cables Class	bantam single and dual cables
Supplied Power	AC adapter/charger
Form Factor	handheld palm T1 test set
Manufacturer	HP Agilent Keysight
Use Case	field T1 installation and maintenance
Hierarchy	Bell DS1
Framing Class	T1/FT1 as implemented in 37741A firmware
Error Analysis Class	tariffed T1 parameters
Fault Locate	hard-to-find T1 faults
Carrying	carrying pouch in standard accessory set
Manual	operating manual supplied
Hardware Version Examples	4.61 and 2.02 class units in the field
Software Version Examples	4.53 and 2.01 class firmware

37741A Specifications

PARAMETER	VALUE
HP Agilent 37741A Handheld DS1 Tester	Overview
Applications	Tariffed T1/FT1 parameter measurement, line/path fault location, and addressable repeater control in the field.
Key Features	Handheld full T1 and FT1 generation and analysis
Line and path test modes	Pairs with 37743A DS3 set via option H02 lid power/support
Technical Specifications	Model: 37741A

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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Software Version Examples	4.53 and 2.01 class firmware
Notes	
From HP 37741A DS1 Tester product description (handheld T1/FT1, line/path, addressable repeaters, 37743A H02 pairing). Exact pulse-mask and ESF/SF result tables are in the 37741A operating manual.	

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.