

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 37702A

The HP 37702A is the T1/DDS member of the HP 3770x tester family. OEM 37701A/37702A summaries list T1 1.544 Mbit/s BER plus Digital Data System (DDS) testing not present on the 37701A, with AMI/B8ZS T1 coding and in-service/out-of-service patterns. T1 span maintenance plus DDS circuit BER and loopback testing at the customer interface. In-service monitor and out-of-service patterns Instrument Type: T1 / DDS transmission tester Input Impedance Class: 100 ohm balanced T1 class Monitor Mode Class: protected monitor-point testing class Alarm Detection Class: AIS, LOS, and yellow/RAI class Dds Loopback Class: CSU/DSU and DDS latching loopbacks class of 37702A



MODEL

**Agilent / Keysight
37702A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

37702A

LISTING

[https://aumictechlabs.c
om/products/37702a-2/](https://aumictechlabs.com/products/37702a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 37702A is a communications performance analyzer engineered for comprehensive testing and analysis of digital communication systems and networks. It delivers a wide range of measurements to evaluate communication signal performance and quality across telecommunications infrastructure. Technical Specifications The 37702A provides broad measurement capabilities designed for digital communication system evaluation. Standard interfaces include GPIB, RS232, LAN, and parallel connectivity, enabling integration into diverse test environments and automated measurement configurations. Key Features Wide-range measurement capabilities for signal performance and quality assessment Multiple interface

options for flexible system integration Support for telecommunications infrastructure testing
Digital communication system analysis and characterizationTypical Applications The 37702A
addresses critical test requirements across the network lifecycle:Development and qualification of
network equipmentManufacturing test of communication sub-assemblies and line
cardsInstallation, maintenance, and commissioning of transport networksTroubleshooting and
performance monitoring of digital communication linksCompatibility & Integration The 37702A is
engineered for digital communication systems and networks. It integrates with standard test
interfaces to support protocol-specific testing in telecommunications environments. Related
product families in the OmniBER series demonstrate support for SONET, ATM, POS, and
technologies including SDH, Ethernet payload mapping, GFP, LAPS encapsulation, Virtual
Concatenation, and LCAS, indicating the scope of digital transport testing capabilities available
within this analyzer class.

37702A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	T1 / DDS transmission tester
Series Family	HP 37701A / 37702A
Primary Rate	T1 1.544 Mbit/s
Added Domain Versus 37701A	DDS (Digital Data System) testing
Line Coding Class	AMI and B8ZS
Error Analysis Class	bit error ratio and T1 alarm detection
Sibling Model	37701A T1/datacom tester
Operating Mode	in-service monitor and out-of-service BER class
Pattern Generation	PRBS and fixed patterns class of 3770x T1 testers
Framing Class	D4/ESF T1 framing class
Form Factor	transportable T1/DDS tester
Remote Class	HP-IB/RS-232 on optioned 3770x units
Application Domain	T1 span, CSU, and DDS circuit maintenance
Clocking Class	recovered and internal T1 clock class
Input Impedance Class	100 ohm balanced T1 class
Monitor Mode Class	protected monitor-point testing class
Alarm Detection Class	AIS, LOS, and yellow/RAI class
Dds Loopback Class	CSU/DSU and DDS latching loopbacks class of 37702A
Documentation	HP 37702A T1/DDS tester operating literature
Power	AC/battery class of handheld 3770x testers where fitted
Display	dedicated T1/DDS results display
Specification Source	HP 37701/37702 family product summaries

37702A Specifications

PARAMETER	VALUE
Agilent Keysight 37702A T1 DDS Tester	Overview
Applications	T1 span maintenance plus DDS circuit BER and loopback testing at the customer interface.
Key Features	T1 1.544 Mbit/s plus DDS test capability
AMI and B8ZS T1 coding class	DDS loopback and BER class of 37702A
Technical Specifications	Instrument Type: T1 / DDS transmission tester

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	
Specifications	
PARAMETER	VALUE
Instrument Type	T1 / DDS transmission tester
Series Family	HP 37701A / 37702A
Primary Rate	T1 1.544 Mbit/s
Added Domain Versus 37701A	DDS (Digital Data System) testing
Line Coding Class	AMI and B8ZS
Error Analysis Class	bit error ratio and T1 alarm detection
Sibling Model	37701A T1/datacom tester
Operating Mode	in-service monitor and out-of-service BER class
Pattern Generation	PRBS and fixed patterns class of 3770x T1 testers
Framing Class	D4/ESF T1 framing class
Form Factor	transportable T1/DDS tester
Remote Class	HP-IB/RS-232 on optioned 3770x units
Application Domain	T1 span, CSU, and DDS circuit maintenance
Clocking Class	recovered and internal T1 clock class
Input Impedance Class	100 ohm balanced T1 class
Monitor Mode Class	protected monitor-point testing class
Alarm Detection Class	AIS, LOS, and yellow/RAI class
Dds Loopback Class	CSU/DSU and DDS latching loopbacks class of 37702A
Documentation	HP 37702A T1/DDS tester operating literature
Power	AC/battery class of handheld 3770x testers where fitted
Display	dedicated T1/DDS results display
Specification Source	HP 37701/37702 family product summaries
Notes On Sparse Table: DDS subrate and pulse-mask numbers belong on the 37702A specification sheet	
Notes	
T1 1.544 Mbit/s plus DDS capability versus 37701A from HP 37701A/37702A family product summaries. Subrate DDS numeric tables were not in the short public listings; do not invent them.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.