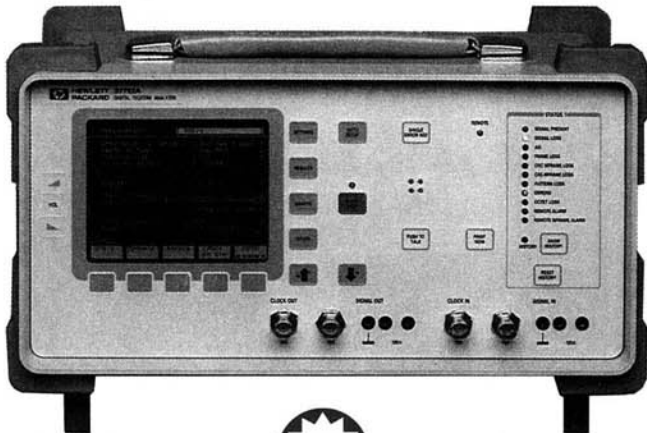- Complete range of in- and out-of-service telecom installation and maintenance measurements in one tester
- Low-cost, rugged, easy to use
- Adaptable to future requirements—no need to buy new test sets
- Powerful results storage and analysis without using printer

- Bit and code error testing at 704 kb/s, 2, 8, 34 & 140 Mb/s
- Portable, lightweight, rugged
- Text and graphic results on large display
- Stored setups and autosetup for ease of use
- Remote control, frequency offset and measurement, multiple outputs

HP 37722A

HP 37721A

HP 37722A Digital Telecom Analyzer

The HP 37722A digital telecom analyzer is an easy-to-use, lightweight, field-portable test set for in- and out-of-service bit error and signal measurements on CEPT digital circuits and services. The HP 37722A provides framed pattern generation and measurements at 704 kb/s and 2 Mb/s. Also, it offers many other features to help increase productivity and network uptime: 80 days' results storage in text and graphic form; $n \times 64$ kb/s testing; timeslot monitor including all signaling bits display; and timeslot access. Options provide unframed 8 Mb/s, framed/unframed 704 kb/s, 64 kb/s timeslot access and sub-rate processing (X.50 divisions 2 and 3, and X.58).

The HP 37722A is easily upgraded to the HP 37732A telecom/datacom analyzer. See page 614.

Applications

- Installation of digital telecom circuits and services
- Long-term network monitoring
- Maintenance and troubleshooting

Specifications

Full transmit and receive capability
Interfaces: 64 kb/s codirectional, 704 kb/s, 2.048 Mb/s, 8448 Mb/s
Measurements: Bit errors, code errors, frame errors, CRC errors, REBEs (E bits), slips, round trip delay
Error analysis: G.821 standard, user-defined and Annex D.
Timeslot access: External drop and insert of one 64 kb/s timeslot to protocol analyzer via V.24/RS-232 port or to TIMS via two 600 ohm audio ports; internal talk/listen
RS-232 remote control and printer interface
Universal ac power supply
Size: 190 mm H × 340 mm W × 208 mm D (7.7 in × 13.4 in × 8.2 in)
Weight: 4.5 kg (10 lb)

Ordering Information

	Price
HP 37722A Digital Telecom Analyzer	$6,050
Opt 001 Timeslot Access	+ $670
Opt 002 8 Mb/s (unframed)	+ $340
Opt 003 704 kb/s (framed and unframed)	+ $560
Opt 004 Small Siemens Connectors	$0
Opt 005 Sub-rate Processing	+ $1,110

Accessories

HP 15901A Opt 001 Datacom Module With V.24, V.11/X.21-Leased, V.35 Interfaces	$2,170

HP 37721A Digital Transmission Analyzer

The HP 37721A digital transmission analyzer is a portable, lightweight, rugged test set providing bit and code error testing at the European CEPT rates of 704 kb/s, 2, 8, 34 and 140 Mb/s. It measures error performance to CCITT Recommendation G.821, with interfaces to G.703.

A key feature of the HP 37721A is its ease of use: the autosetup facility automatically configures the test set to the incoming data; nine stored setups ensure that required test parameters are instantly available; graphic display of results shows error counts, error seconds, and alarms at a glance; and a range of logging options to an internal or external printer provides customized hard-copy proof of results.

Option 001 provides remote control via RS-232 and HP-IB interfaces and adds the ability to log results to an HP ThinkJet. Multiple outputs in Option 002 enable simultaneous loading of four channels of a multiplexer or digital radio with only one test set. With Option 003, up to 100 ppm of frequency offset is provided at all rates to evaluate clock-recovery circuits.

Applications

- Maintenance of digital networks (PTTs, other network operators)
- Installation of digital networks (PTTs, network operators, manufacturers)
- Long-term unattended monitoring with error performance analysis based on CCITT Recommendation G.821

Measurement Summary

Error analysis: As CCITT Recommendation G.821
Results displayed: Elapsed time in test period; errored seconds, percent errored seconds, error-free seconds, percent error-free seconds, severely errored seconds, percent severely errored seconds; unavailability, percent unavailability; degraded minutes, percent degraded minutes; code-error seconds; bit-error count, bit-error ratio; code-error count, code-error ratio; frequency, frequency offset; and alarms

Ordering Information

	Price
HP 37721A Digital Transmission Analyzer	$7,670
Opt 001 Remote Control	+ $645
Opt 002 Multiple Outputs	+ $1,720
Opt 003 Frequency Offset	+ $1,075