

TELECOMMUNICATIONS TEST EQUIPMENT

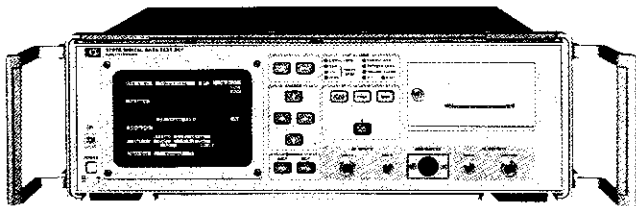
T1 and Digital Data Test Sets

HP 3787B, 37701A

587

- Carry out stress and compliance tests on DDS/Dataport and T1/T1C equipment
- In manufacturing, replace whole racks of test equipment with one set
- Reduce network downtime with error monitoring, analysis, and logging

- Complete range of T1 installation and maintenance measurements in one tester
- Low cost, rugged, easy to use
- Fractional T1 BER and configuration measurements
- Powerful results storage and analysis without using a printer



HP 3787B



HP 3787B Digital Data Test Set

The HP 3787B combines T1/T1C and DDS testing in one, portable test set. A built-in multiplexer/demultiplexer allows test patterns, control codes, or external data to be inserted into, or extracted from, individual timeslots, substrates, and overhead channels. Measurements range from simple BER tests to full error analysis, as well as signal level and optional DS1 jitter measurement.

Applications

- DDS/Dataport and T1 equipment manufacturing
- Network installation and maintenance
- Performance monitoring

Specifications

Full transmit and receive capability.

Interfaces: DS0 A/B, DS1 (D4, ESF, T1DM, SLC-96), DS1C

Test patterns: 2²³, 2²⁰, 2¹⁵ PRBS; QRSS, 3 in 24, 8-bit word, loop, and control codes; TA55 DDS stress patterns, 256-byte user pattern (DS0 only).

External clock input for jitter generation

Error detection, analysis and logging on all test patterns

Frame slips measurement

Built-in printer

HP-IB and RS-232 remote control interfaces

Size: 130 mm H × 425 mm W × 420 mm D (5.12 in × 16.73 in × 16.54 in)

Weight: 10.4 kg (23 lb)

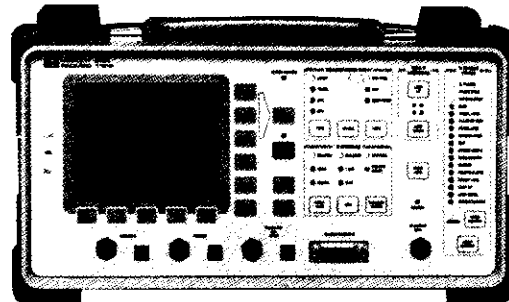
Ordering Information

	Price
HP 3787B Digital data test set	\$9,590
Opt 001 DS1 jitter measurement	+ \$935
Opt 002 DC operation (48V)	+ \$620
Opt 003 Channel VF output	+ \$390

Special options are available to give 32 or 64 additional DSX-1 outputs and DS0 operation with a composite clock signal.

Accessories

HP 15513A 1m WECO 310 - WECO 310 cable	\$62
HP 15668A Front-panel DDS clock cable	\$128
HP 15669A Rear-panel DDS clock cable	\$128



HP 37701A

HP 37701A T1 Tester

The HP 37701A performs bit-error and signal measurements on T1 circuits in central offices, at outside locations, and on the users' premises. Built-in CSU emulation allows circuits to be proven before user equipment is connected. Autoconfigure, "trouble scan", and pre-stored setups, together with clear simple controls, make the tester easy to use. The HP 37701A T1 tester is easily upgraded to the HP 37711A T1/datacom test set (see page 621).

Applications

- Leased T1 circuit installation and maintenance
- T1 circuit monitoring in central offices
- Acceptance testing and maintenance by T1 users
- Testing fractional T1 services

Specifications

Full transmit and receive capability.

Receiver range: +6 to -36 dB DSX with equalization

Framing: D4, ESF, SLC-96

Line codes: AMI, B8ZS

Test patterns: 2²³, 2²⁰, 2¹⁵ PRBS; QRSS, 3 in 24, 1:1, 1:7, 55 octet, 1024-bit word

Measurements: Error performance based on BPVs, logic, frame, and pattern errors; frequency, pattern slips, simplex current, level, round trip delay, pulse shape, clock slips, and channel mapping

Channel VF output including internal loudspeaker

RS-232 remote control and printer interface (HP-IB available)

Size: 190 mm H × 340 mm W × 208 mm D (7.5 in × 13.4 in × 8.2 in)

Weight: 4.5 kg (10 lb)

Ordering Information

	Price
HP 37701A T1 tester	\$4,700
Opt 001 Pulse shape and wander/clock slips measurement	+ \$550
Opt 002 Built-in rechargeable battery and charger	+ \$750
Opt 003 Graphic results presentation, result storage, and G.821 performance analysis	+ \$700
Opt 004 n × 56/n × 64 kb/s measurements	+ \$1,200

Accessories

HP 15513A 1 m WECO 310 - WECO 310 cable	\$62
HP 18182A 1.5 m WECO 310 - crocodile clip cable	\$67
HP 15710A Soft-fabric carrying case	\$170