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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 3577A and 35677B Network Analyzer and S-Parameter Test Set

The Keysight 3577A is a network analyzer that operates in the frequency range of 5 Hz to 200 MHz. It is often used with the 35677B S-parameter test set to measure the magnitude and phase of S-parameters of two-port devices.

**MODEL****Keysight / Agilent /
HP 3577A / 35677B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****3577A / 35677B****LISTING**<https://aumictechlabs.com/products/3577a-35677b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent/HP 3577A Network Analyzer paired with the 35677B S-Parameter Test Set delivers precision impedance and S-parameter measurements from 5 Hz to 200 MHz. This dual-unit system excels in design and production environments, characterizing two-port devices with high speed and accuracy. The 3577A employs individual precision analog receivers for each input, eliminating signal multiplexing to preserve measurement integrity. Both units are fully programmable via HP-IB (IEEE 488), enabling automated test sequences and seamless integration into larger measurement systems. Technical Specifications Keysight/Agilent/HP 3577A Network Analyzer: Frequency Range: 5 Hz to 200 MHz Frequency Resolution: 0.001 Hz Output Power: 0 dBm Dynamic Range: Greater than 130 dB (with noise reduction) Receiver Input Impedances: 50 Ω or 1 M Ω (selectable) Measurement Resolution: 0.001 dB, 0.005 degrees, 1 ps Display Modes:

Magnitude, phase, polar, real, imaginary, group delay Error Correction: Three-term vector error correction and normalization Noise Reduction: Vector noise averaging with selectable resolution bandwidth filters External Reference: 10 MHz input/output (BNC, rear panel) External Trigger: TTL or contact closure (BNC, rear panel) Storage: Non-volatile memory for five front-panel setups Power: 115 V or 230 V, 47–440 Hz, 450 VA maximum Dimensions: 222 mm H × 426 mm W × 578 mm D Weight: 31 kg (net) Keysight/Agilent/HP 35677B S-Parameter Test Set: System Compatibility: HP 3577A Network Analyzer Frequency Range: 100 kHz to 200 MHz Test Port Impedance: 75 Ω Directivity: >40 dB Frequency Response (S21, S12): ± 1 dB, ± 5 degrees Key Features Vector error correction and normalization minimize systematic errors Binary or ASCII data transfer via HP-IB for fast automated workflows HP-GL graphics plotter control for direct output integration Dual-receiver architecture eliminates multiplexing losses Selectable impedance matching (50 Ω or high-impedance modes) Group delay, insertion loss, return loss, and reflection coefficient measurement Typical Applications Filter and amplifier characterization, transmission line analysis, device impedance profiling, gain compression testing, and phase distortion measurement across baseband to VHF frequencies. Compatibility & Integration HP-IB programming enables remote control and data acquisition. External 10 MHz reference input supports phase-locked system operation. TTL trigger input synchronizes measurements with external test sequences.

Features & description

From manufacturer datasheet

Features

- Synthesized source 5 Hz to 200 MHz with 0.001 Hz resolution

3577A35677B Characteristics / Specifications

PARAMETER	VALUE
Model	3577A with 35677B
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Network Analyzer plus S-Parameter Test Set
Alias	3577A; 35677B; HP 3577A; HP 35677B
Analyzer Frequency	5 Hz to 200 MHz
Frequency Resolution	0.001 Hz
Frequency Stability	plus or minus 5E-8 per day 0 to 55 C
Source Level	+15 dBm to -49 dBm into 50 ohm (1.26 Vrms to 793 uVrms)
Source Resolution	0.1 dB
Source Accuracy	plus or minus 1 dB at +15 dBm and 100 kHz
Source Flatness	1.5 dB p-p from 5 Hz to 200 MHz
Source Impedance	50 ohm; greater than 20 dB return loss
RF Output Connector	TypeNfemale 50 ohm
Sweep Time Frequency	100 ms/span to 6553 s/span
Receiver Inputs	ABandR Receiver Frequency: 5 Hz to 200 MHz
Input Impedance	50 ohm greater than 25 dB RL or 1 MOhm // approx 30 pF
Input Connectors	TypeNfemale 50 ohm
IF Bandwidth	1 kHz 100 Hz 10 Hz 1 Hz selectable
Magnitude Resolution	0.001 dB log
Test Set Model	35677B
Test Set Impedance	75 ohm
Test Set Frequency	100 kHz to 200 MHz
Test Set Function	S-parameter (reflection and transmission)
Related 35677A	50 ohm S-parameter test set 100 kHz to 200 MHz
Trace Points	401

PARAMETER	VALUE
Interface	HP-IB
Display	vector graphics
Trigger	free run immediate line external Notes Analyzer source/receiver figures from HP 3577A specification sheet. 35677B is the 75 ohm S-parameter test set (35677A is 50 ohm). Confirm which test set is actually attached and the analyzer serial prefix.
Bandwidth	1 kHz 100 Hz 10 Hz 1 Hz
Return loss	RF Output Connector: TypeNfemale 50 ohm

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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Specifications

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Interface	HP-IB
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Trigger: free run immediate line external

Notes

Analyzer source/receiver figures from HP 3577A specification sheet. 35677B is the 75 ohm S-parameter test set (35677A is 50 ohm). Confirm which test set is actually attached and the analyzer serial prefix.

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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NIST-traceable calibration · SAM registered ·
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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.