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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3577B

Agilent Keysight 3577B Network Analyzer 5 Hz to 200 MHz The HP 3577B isahigh-performance two-channel (optional three-channel) network analyzer covering 5 Hz to 200 MHz. OEM 3577B product summaries list magnitude/phase, insertion loss, group delay, SWR, electrical length, and gain-compression measurements, with return-loss and impedance when used with the 35676A/B reflection/transmission kit. R&D and manufacturing characterization of filters, amplifiers, and two-port networks from audio through 200 MHz; reflection measurements with 35676A/B. The HP 3577B isahigh-performance two-channel (optional three-channel) network analyzer covering 5 Hz to 200 MHz. OEM 3577B product summaries list magnitude/phase, insertion loss, group delay, SWR, electrical length, and gain-compression measurements, with return-loss and impedance when used with the 35676A/B reflection/transmission kit. R&D and manufacturing characterization of filters, amplifiers, and two-port networks from audio through 200 MHz; reflection measurements with 35676A/B. 5 Hz to 200 MHz synthesized source and receivers

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

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 3577B is a dual-channel network analyzer (expandable to three channels) operating from 5 Hz to 200 MHz, engineered for R&D and manufacturing characterization of electronic networks and components. It delivers magnitude and phase measurements with 0.02

dB dynamic accuracy and 0.2° phase accuracy, alongside specialized capabilities including insertion loss, group delay, SWR, electrical length, gain compression, and attenuation analysis. The instrument features a synthesized local oscillator and tracking generator with 0.001 Hz frequency resolution and source amplitude range from +15 dBm to -49 dBm. Multiple sweep modes - linear frequency, log frequency (segmented linear approximation), alternate frequency, CW, discrete (2–51 frequencies), and log amplitude - accommodate diverse measurement scenarios. Sweep times range from 100 ms/span to 6553 s/span for frequency sweeps and 1 ms/step to 16 s/step for amplitude sweeps. The receiver achieves 100 dB+ dynamic range and -130 dBm noise floor with selectable 50Ω or 1 MΩ input impedance. Built-in three-term error correction and vector normalization enable high-fidelity two-port characterization. Display modes include magnitude, phase, polar, real, imaginary, and group delay with integrated Smith chart and polar graticule rendering. Return loss, reflection coefficient, and impedance measurements are available with the 35676A/B accessory kit. The instrument interfaces via HP-IB, programmable TTL I/O, and direct HP-GL plotter control, making it suitable for both automated production test and hands-on circuit development.

3577B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Network analyzer
Series Family	HP 3577A/B 5 Hz to 200 MHz
Frequency Range	5 Hz to 200 MHz
Standard Receiver Channels	2
Measurement Functions	magnitude, phase, insertion loss, group delay, SWR, electrical length, gain compression
Reflection Kit	35676A/B for return loss, reflection coefficient, and impedance
Frequency Resolution Family	0.001 Hz (3577 family synthesized source)
Receiver Dynamic Range Family	100 dB (3577 family receivers)
Dynamic Magnitude Accuracy Family	plus or minus 0.02 dB (3577 family)
Dynamic Phase Accuracy Family	plus or minus 0.2 deg (3577 family)
Source Level Range Family	plus 15 dBm to minus 49 dBm into 50 ohm (3577 family source table)
Source Frequency Stability Family	plus or minus 5e-8 per day, 0 to 55 C (3577 family)
Input Impedance Family	50 ohm or 1 MOhm (3577 family receivers)
Sensitivity Family 1 Hz Rbw	minus 130 dBm (3577 family literature)
Marker Resolution Magnitude Family	0.001 dB
Marker Resolution Phase Family	0.005 deg
Companion Test Set 356	100 kHz to 200 MHz 50 ohm or 75 ohm S-parameter sets used with 3577 family
Display Formats	rectangular, polar, and Smith class of the 3577 family
Remote Interface	HP-IB
Form Factor	benchtop network analyzer
Predecessor	3577A three-receiver integrated analyzer
Operating Temperature Class	0 to 55 C class of the 3577 source stability statement
Operating temperature	Class: 0 to 55 C class of the 3577 source stability statement

3577B Specifications

PARAMETER	VALUE
Agilent Keysight 3577B Network Analyzer 5 Hz to 200 MHz	Overview
Key Features	5 Hz to 200 MHz synthesized source and receivers
Technical Specifications	Instrument Type: Network analyzer

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C class of the 3577 source stability statement
Operating Temperature	Class: 0 to 55 C class of the 3577 source stability statement
Operating Temperature Class	0 to 55 C class of the 3577 source stability statement Notes Channel count and measurement list from HP/Agilent 3577B product summaries. Source, receiver dynamic range, 0.001 Hz resolution, and minus 130 dBm sensitivity rows are the published 3577 family tables shared with 3577A literature; confirm 3577B optioned third-channel and exact source footnotes on the 3577B operating-manual specification table.

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.

performance two-channel (optional three-channel) network analyzer covering 5 Hz to 200 MHz. OEM 3577B product summaries list magnitude/phase, insertion loss, group delay, SWR, electrical length, and gain-compression measurements, with return-loss and impedance when used with the 35676A/B reflection/transmission kit.

Applications
R&D and manufacturing characterization of filters, amplifiers, and two-port networks from audio through 200 MHz; reflection measurements with 35676A/B.

Key Features
5 Hz to 200 MHz synthesized source and receivers
Two-channel standard; optional third receiver channel
Magnitude, phase, group delay, SWR, and electrical length
Companion 35676A/B reflection/transmission kit
HP-IB automation for production network analysis

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Instrument Type	Network analyzer
Series Family	HP 3577A/B 5 Hz to 200 MHz
Frequency Range	5 Hz to 200 MHz
Standard Receiver Channels	2

Optional Receiver Channels: 3

Specifications

PARAMETER	VALUE
Measurement Functions	magnitude, phase, insertion loss, group delay, SWR, electrical length, gain compression
Reflection Kit	35676A/B for return loss, reflection coefficient, and impedance
Frequency Resolution Family	0.001 Hz (3577 family synthesized source)
Receiver Dynamic Range Family	100 dB (3577 family receivers)
Dynamic Magnitude Accuracy Family	plus or minus 0.02 dB (3577 family)
Dynamic Phase Accuracy Family	plus or minus 0.2 deg (3577 family)
Source Level Range Family	plus 15 dBm to minus 49 dBm into 50 ohm (3577 family source table)
Source Frequency Stability Family	plus or minus 5e-8 per day, 0 to 55 C (3577 family)
Input Impedance Family	50 ohm or 1 MOhm (3577 family receivers)
Sensitivity Family 1 Hz Rbw	minus 130 dBm (3577 family literature)
Marker Resolution Magnitude Family	0.001 dB

PARAMETER	VALUE
Marker Resolution Phase Family	0.005 deg
Companion Test Set 35677	100 kHz to 200 MHz 50 ohm or 75 ohm S-parameter sets used with 3577 family
Display Formats	rectangular, polar, and Smith class of the 3577 family
Remote Interface	HP-IB
Form Factor	benchtop network analyzer
Predecessor	3577A three-receiver integrated analyzer
Operating Temperature Class	0 to 55 C class of the 3577 source stability statement

Notes

Channel count and measurement list from HP/Agilent 3577B product summaries. Source, receiver dynamic range, 0.001 Hz resolution, and minus 130 dBm sensitivity rows are the published 3577 family tables shared with 3577A literature; confirm 3577B optioned third-channel and exact source footnotes on the 3577B operating-manual specification table.

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

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