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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3577A

The HP 3577A is a 5 Hz to 200 MHz network analyzer for gain, phase, and group-delay measurements. OEM specifications list 100 dB dynamic range class, synthesized source, and dual-channel receivers for baseband through HF RF component characterization. Filter amplifier and crystal characterization, control-loop and servo analysis, and baseband RF network measurements to 200 MHz. Frequency Resolution Class: 0.001 Hz class Dynamic Range Class: greater than 100 dB class Noise Floor Class: receiver noise per OEM sheet Amplitude Accuracy Class: dB-class per OEM sheet Phase Accuracy Class: degree-class per OEM sheet From HP 3577A network analyzer data sheet. Full dynamic-range and accuracy versus IF bandwidth tables are on the OEM specification pages.



MODEL

**Agilent / Keysight
3577A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3577A

LISTING

<https://aumictechlabs.com/products/3577a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 3577A is a programmable network analyzer covering 5 Hz to 200 MHz with 100 dB dynamic range. It performs magnitude, phase, insertion loss, return loss, reflection coefficient, impedance, gain compression, and group delay measurements. The instrument delivers ± 0.02 dB dynamic accuracy with resolution to 0.001 dB in magnitude, 0.005° in phase, and 1 ps in time-domain analysis. Technical Specifications Frequency Range: 5 Hz to 200 MHz Frequency Resolution: 0.001 Hz Dynamic Range: 100 dB Dynamic Accuracy: ± 0.02 dB Measurement Resolution: 0.001 dB (magnitude), 0.005° (phase), 1 ps (group delay) Source Output

Level: +15 dBm to -49 dBm with 0.1 dB resolution Source Output Flatness: 1.5 dBp-p (5 Hz to 200 MHz) Receiver Input Impedance: Selectable 50 Ω or 1 M Ω Test Input Ports: R, A, B (100 dB dynamic range each) Display Modes: Magnitude, Phase, Polar, Real, Imaginary, Group Delay Display Formats: Rectangular, Polar, Smith Chart with electronic graticules Key Features Three-term error correction and vector error correction for measurement accuracy Normalization and vector averaging for noise reduction Frequency sweep (logarithmic, linear, alternate) and amplitude sweep capabilities Complex trace storage with vector math functions for user-defined operations Front-panel line stretcher with meter/centimeter readout for electrical length matching Non-volatile memory stores up to 5 front-panel setups RF connectors: Type N female External 10 MHz reference input (BNC female, 50 Ω nominal, 0 dBm $\pm$ 10 dB) 10 MHz reference output Typical Applications Reflection and transmission measurements on passive and active devices, impedance characterization, insertion loss and return loss analysis, group delay measurement, and gain compression testing in component and subsystem development. Compatibility & Integration HP-IB (Hewlett-Packard Interface Bus) programmability enables integration into automated test systems. Direct plotter control supports HP 7470A, 7475A, 7550A, and 7090A graphics plotters for measurement documentation.

3577A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	5 Hz to 200 MHz
Frequency Resolution Class	0.001 Hz class
Dynamic Range Class	greater than 100 dB class
Source Output Level Class	-50 dBm to +15 dBm class
Receiver Inputs	Dual receiversAandBMeasurement Parameters: Magnitude phase group delay
Phase Resolution Class	0.01 degree class
Group Delay Aperture	Selectable
Input Impedance	50 Ohm and 1 MOhm class
Remote Interface	HP-IB
Instrument Type	Network analyzer
Form Factor	Benchtop
Operating Temperature Class	0 C to 55 C
Power Line	100/120/220/240 V class
Display	Rectangular and polar displays
Marker Functions	Supported
Calibration	Response and vector cal class
Sweep Types	Linear and log frequency
Source Impedance	50 Ohm
Series Family	HP 3577 network analyzers
Noise Floor Class	receiver noise per OEM sheet
Amplitude Accuracy Class	dB-class per OEM sheet
Phase Accuracy Class	degree-class per OEM sheet
Operating temperature	Class: 0 C to 55 C

3577A Specifications

PARAMETER	VALUE
HP Agilent 3577A Network Analyzer	Overview
Applications	Filter amplifier and crystal characterization, control-loop and servo analysis, and baseband RF network measurements to 200 MHz.
Key Features	5 Hz to 200 MHz coverage
Technical Specifications	Frequency Range: 5 Hz to 200 MHz
Notes	From HP 3577A network analyzer data sheet. Full dynamic-range and accuracy versus IF bandwidth tables are on the OEM specification pages.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 55 C
Operating Temperature	Class: 0 C to 55 C
Operating Temperature Class	0 C to 55 C
Power Line	100/120/220/240 V class
Display	Rectangular and polar displays
Marker Functions	Supported
Calibration	Response and vector cal class
Sweep Types	Linear and log frequency
Source Impedance	50 Ohm
Series Family	HP 3577 network analyzers
Noise Floor Class	receiver noise per OEM sheet
Amplitude Accuracy Class	dB-class per OEM sheet
Phase Accuracy Class	degree-class per OEM sheet Notes From HP 3577A network analyzer data sheet. Full dynamic-range and accuracy versus IF bandwidth tables are on the OEM specification pages.

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 list 100 dB dynamic range class, synthesized source, and dual-channel receivers for baseband through HF RF component characterization.

Applications

Filter amplifier and crystal characterization, control-loop and servo analysis, and baseband RF network measurements to 200 MHz.

Key Features

5 Hz to 200 MHz coverage

Gain phase and group delay

High dynamic range receivers

Synthesized source

HP-IB automation

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Frequency Range	5 Hz to 200 MHz
Frequency Resolution Class	0.001 Hz class
Dynamic Range Class	greater than 100 dB class
Source Output Level Class	-50 dBm to +15 dBm class
Receiver Inputs	Dual receiversAandBMeasurement Parameters: Magnitude phase group delay
Phase Resolution Class	0.01 degree class
Group Delay Aperture	Selectable
Input Impedance	50 Ohm and 1 MOhm class
Remote Interface	HP-IB
Instrument Type	Network analyzer
Form Factor	Benchtop
Operating Temperature Class	0 C to 55 C
Power Line	100/120/220/240 V class
Display	Rectangular and polar displays
Marker Functions	Supported
Calibration	Response and vector cal class
Sweep Types	Linear and log frequency
Source Impedance	50 Ohm
Series Family	HP 3577 network analyzers

PARAMETER	VALUE
Noise Floor Class	receiver noise per OEM sheet
Amplitude Accuracy Class	dB-class per OEM sheet
Phase Accuracy Class	degree-class per OEM sheet

Notes
From HP 3577A network analyzer data sheet. Full dynamic-range and accuracy versus IF bandwidth tables are on the OEM specification pages.

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 ·
30-day returns
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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.