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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8410A

HP Agilent 8410A Network Analyzer Mainframe 110 MHz to 12.4 GHz The HP 8410A is the original microwave network-analyzer mainframe. OEM HP Journal / 8410 system literature list 110 MHz to 12.4 GHz coverage with the 8411A harmonic frequency converter (18 GHz with the 18 GHz converter option), a 20 MHz first IF, a 278 kHz second IF, and a precision 0 to 69 dB IF attenuator in 10 dB and 1 dB steps. Swept transmission and reflection (S-parameter) measurements with 874x test sets and 8412/8413/8414 display plug-ins. The HP 8410A is the original microwave network-analyzer mainframe. OEM HP Journal / 8410 system literature list 110 MHz to 12.4 GHz coverage with the 8411A harmonic frequency converter (18 GHz with the 18 GHz converter option), a 20 MHz first IF, a 278 kHz second IF, and a precision 0 to 69 dB IF attenuator in 10 dB and 1 dB steps. Swept transmission and reflection (S-parameter) measurements with 874x test sets and 8412/8413/8414 display plug-ins. Phase-lock keeps 20 MHz IF while frequency is swept



MODEL

**Agilent / Keysight
8410A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8410A

LISTING

<https://aumictechlabs.com/products/8410a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8410A is a network analyzer mainframe that measures phase and amplitude characteristics of RF and microwave networks. Operating as a phasometer and ratiometer, it delivers direct, continuous, simultaneous phase and amplitude ratio measurements of RF voltages across a broad frequency spectrum. The system combines the 8410A mainframe with an 8411A

frequency converter and 8412A phase/magnitude display to enable S-parameter characterization from 110 MHz to 12.4 GHz. Technical Specifications Frequency Range: 110 MHz to 12.4 GHz Input Impedance: 50 ohm Reference Channel Amplitude: 20 dB span, -16 dBm to -44 dBm Test Channel Amplitude: -10 dBm to -78 dBm Maximum RF Input Power: 50 mW Equivalent Input Noise Floor: Less than -78 dBm Phase Measurement Range: 0 to 360 degrees Display Formats: Relative amplitude in dB and relative phase in degrees Auxiliary Outputs: Two rear-panel outputs providing 270 kHz IF signals Key Features Dual-channel architecture supports simultaneous reference and test signal acquisition 68 dB dynamic range between reference and test channels Modular construction enables field configuration with frequency converters and display units IF output accessibility for external signal processing Typical Applications S-parameter and network characterization in RF/microwave design Two-port device measurement and transmission/reflection analysis Phase tracking and amplitude ratio determination in component testing Compatibility & Integration The 8410A integrates with HP S-parameter test sets including the 8514B (45 MHz to 20 GHz), 8515A (45 MHz to 26.5 GHz), and 8516A (45 MHz to 40 GHz). The 8411A harmonic frequency converter and 8412A phase/magnitude display are standard system components. This is a discontinued product; manuals are available but Keysight provides limited current support.

8410A Characteristics / Specifications

PARAMETER	VALUE
Model	8410A
Instrument Type	Network analyzer mainframe
Frequency Range With 8411A	110 MHz to 12.4 GHz
Extended Frequency	to 18 GHz with 8411A 18 GHz converter option
First If	20 MHz
Second If	278 kHz
If Attenuator Range	0 to 69 dB
If Attenuator Steps	10 dB and 1 dB steps
Converter	8411A harmonic frequency converter (two wideband samplers)
Display Plugin Phase Gain	8413A phase-gain indicator
Display Plugin Polar	8414A polar display
Display Plugin Rectangular	8412A phase/magnitude display
Typical Source	8620C sweeper family
Test Sets	874x transmission/reflection and S-parameter test sets
Architecture	superheterodyne sampling receiver
Manufacturer	HP Agilent Keysight
Mechanical Package	mainframe with plug-in display
Minimum Frequency	110 MHz
Maximum Frequency Standard	12.4 GHz
Measurement Types	relative amplitude in dB and relative phase in degrees
System Family	HP 8410A/B/C network analyzer
Successor Mainframe	8410B improved automation; 8410C final automated version

8410A Specifications

PARAMETER	VALUE
Applications	Swept transmission and reflection (S-parameter) measurements with 874x test sets and 8412/8413/8414 display plug-ins.
Key Features	Phase-lock keeps 20 MHz IF while frequency is swept
Ratio of reference and test via matched AGC amplifiers	0 to 69 dB IF substitution attenuator
Technical Specifications	Model: 8410A

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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Notes	
From HP 8410 network analyzer system literature (HP Memory Project 8410 description and 8410A product data). Frequency limits follow the installed 8411A converter option.	

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.