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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8410B

HP Agilent 8410B Network Analyzer Mainframe 110 MHz to 18 GHz The HP 8410B is the improved 8410-series mainframe. OEM 8410 system literature list 110 MHz to 12.4 GHz with the standard 8411A converter and 18 GHz with the 18 GHz converter option, the same 20 MHz / 278 kHz IF chain, 0 to 69 dB IF attenuator, and optional automation compared with 8410A. Automated or manual swept S-parameter measurements with 874x test sets and 8412/8413/8414 displays. Improved 8410A successor with optional automation The HP 8410B is the improved 8410-series mainframe. OEM 8410 system literature list 110 MHz to 12.4 GHz with the standard 8411A converter and 18 GHz with the 18 GHz converter option, the same 20 MHz / 278 kHz IF chain, 0 to 69 dB IF attenuator, and optional automation compared with 8410A. Automated or manual swept S-parameter measurements with 874x test sets and 8412/8413/8414 displays. Improved 8410A successor with optional automation Same 8411A converter and display plug-ins as 8410A



MODEL

**Agilent / Keysight
8410B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8410B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8410B is a precision network analyzer engineered for characterization of high-frequency electrical networks across RF and microwave applications. It delivers S-parameter measurement, impedance analysis, phase tracking, and frequency response data essential for design validation of filters, amplifiers, and antennas. Technical Specifications Frequency Range: 10

MHz to 20 GHz Measurement Parameters: S-parameters, gain/loss, impedance, phase angles (0 to 360°), magnitude ratios (dB), frequency response, and time-domain measurements Dynamic Range: 60 dB (phase and magnitude ratio), 100 dB (alternative specification) Measurement Speed: Up to 150 points per second Resolution Bandwidth: 1 Hz to 3 MHz Measurement Channels: 2 Power Levels: Reference Channel: -16 dBm to -44 dBm Test Channel: -10 dBm to system noise floor (typically -78 dBm or lower) Test Channel maximum: 20 dB above Reference Channel Power Supply: 100-240 VAC, 48-440 Hz Weight: 13.6 kg

Key Features Integrated automatic calibration and error correction for measurement consistency Dual-channel architecture for simultaneous RF voltage phase and magnitude ratio measurement Complex S-parameter network characterization in small-signal mode Harmonic frequency converter compatibility (Model 8411A) for extended measurement capability via RF mixer and step recovery diode harmonic generation

Typical Applications Device characterization including passive and active RF/microwave networks, component qualification, and circuit validation across the 10 MHz to 20 GHz band.

Compatibility & Integration Interfaces include GPIB, RS-232, and LAN for control and automation. The 8410B integrates with compatible sweep oscillators (HP 8620C) for continuous multi-octave frequency sweeps. Operates as part of a modular system with display units and optional frequency conversion modules.

8410B Characteristics / Specifications

PARAMETER	VALUE
Model	8410B
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
Display Plugin Phase Gain	8413A
Display Plugin Polar	8414A or 8414B
Display Plugin Rectangular	8412A
Typical Source	8620C sweeper family
Predecessor	8410A
Successor	8410C
Manufacturer	HP Agilent Keysight
Mechanical Package	mainframe with plug-in display
Minimum Frequency	110 MHz
Maximum Frequency Standard	12.4 GHz
Automation	can be automated with the published 8410B option
System Family	HP 8410A/B/C
Measurement Types	relative amplitude and phase

8410B Specifications

PARAMETER	VALUE
Applications	Automated or manual swept S-parameter measurements with 874x test sets and 8412/8413/8414 displays.
Key Features	Improved 8410A successor with optional automation
Technical Specifications	Model: 8410B
Notes	From HP 8410B network analyzer system literature. Confirm converter option (12.4 vs 18 GHz) on the 8411A paired with the mainframe.

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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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.