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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83484B Dual Channel 50 GHz Electrical Plug-In Module

HP / Agilent 83484B 50 GHz Single Channel Electrical Plug-in The HP/Agilent 83484B is a single-channel electrical vertical plug-in for the 83480A digital communications analyzer and 54750A digitizing oscilloscope mainframes. User-selectable bandwidths of 26.5 GHz and 50 GHz trade noise for fidelity. A separate 2.5 GHz trigger channel uses a 3.5 mm male connector; the signal channel uses a 2.4 mm male connector into a 50 ohm nominal input. 50 GHz electrical eye and pulse fidelity measurements; high-speed SERDES and microwave interconnect characterization; DCA/54750A systems needing one ultra-wide electrical channel with a dedicated trigger port. The HP/Agilent 83484B is a single-channel electrical vertical plug-in for the 83480A digital communications analyzer and 54750A digitizing oscilloscope mainframes. User-selectable bandwidths of 26.5 GHz and 50 GHz trade noise for fidelity. A separate 2.5 GHz trigger channel uses a 3.5 mm male connector; the signal channel uses a 2.4 mm male connector into a 50 ohm nominal input. 50 GHz electrical eye and pulse fidelity measurements; high-speed SERDES and microwave interconnect characterization; DCA/54750A systems needing one ultra-wide electrical channel with a dedicated trigger port.



MODEL

**HP / Agilent
83484B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83484B

LISTING

<https://aumictechlabs.com/products/83484b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 83484B is a dual-channel electrical plug-in module for the 83480A Digital Communications Analyzer, delivering high-speed electrical signal analysis up to 50 GHz. This module enables precision characterization of high-frequency devices and high-speed digital communication signals in laboratory and production test environments.

Technical Specifications

Bandwidth Options 50 GHz selectable bandwidth 26.5 GHz selectable bandwidth for optimized noise performance with small signals

Noise Performance 0.46 mV RMS noise at 26.5 GHz bandwidth 0.75 mV RMS noise at 50 GHz bandwidth

Signal Handling Maximum input signal: ± 2 Vdc

Connectors 2.4 mm (m) type

Trigger port

Environmental & Operating Conditions

Operating altitude: up to 4,600 meters (15,000 ft)

Non-operating altitude: up to 15,300 meters (50,000 ft)

Power supply: 90–132 Vac or 198–264 Vac, 48–66 Hz

Key Features

- Dual independent measurement channels in a single module
- Selectable bandwidth configuration for noise optimization
- Low-noise front end suitable for small-signal characterization
- Direct 2.4 mm connector interface for millimeter-wave signals
- Full compatibility with Infiniium DCA mainframes

Typical Applications

- High-speed digital communication signal analysis and characterization
- Device under test (DUT) electrical parameter measurement to 50 GHz
- High-frequency component validation and troubleshooting
- Laboratory research requiring dual-channel simultaneous acquisition

Compatibility & Integration

The 83484B operates as a plug-in module within compatible mainframes. Primary platform is the Agilent 83480A Digital Communications Analyzer. The module also integrates with Infiniium DCA mainframes: 86100A/B, 86100C (DCA-J), and 86100D (DCA-X). The 83480A can host up to two plug-in modules, providing four total measurement channels when fully populated.

Features & description

From manufacturer datasheet

Features

- Single electrical measurement channel (83484A is dual-channel)
- Selectable dc to 26.5 GHz or dc to 50 GHz bandwidth
- Dedicated 2.5 GHz trigger channel
- 2.4 mm male channel connector; 3.5 mm male trigger connector
- Lower-noise 26.5 GHz mode for small-signal work

83484B Characteristics / Specifications

PARAMETER	VALUE
Model	83484B
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Electrical vertical plug-in module
Host Mainframes	83480A; 54750A
Alias	HP 83484B; Agilent 83484B; Keysight 83484B
Number Of Channels	1 electrical
Bandwidth Selectable	dc to 26.5 GHz or dc to 50 GHz (-3 dB)
Transition Time 26.5 GHz Mode	13.2 ps (10 to 90 percent; Tr = 0.35/BW)
Transition Time 50 GHz Mode	7.0 ps (10 to 90 percent; Tr = 0.35/BW)
Maximum Noise RMS 26.5 GHz	0.75 mV
Maximum Noise RMS 50 GHz	1.5 mV
Scale Factor Minimum	1 mV/div
Scale Factor Maximum	100 mV/div
Full Scale Divisions	8
DC Accuracy 26.5 GHz Mode	plus/minus 0.4 percent of full scale or marker reading (whichever greater) plus/minus 2 mV plus/minus 1.5 percent of (reading minus channel offset) plus temperature terms
Dynamic Range	plus/minus 400 mV relative to channel offset
Maximum Safe Input	plus/minus 2 V dc plus peak AC; +16 dBm peak AC (characteristic)
Nominal Impedance	50 ohm
Input Reflections	5 percent for 30 ps risetime
Channel Connector	2.4 mm male
Trigger Bandwidth	2.5 GHz
Trigger Connector	3.5 mm male
Trigger Nominal Impedance	50 ohm
Trigger Level Range	plus/minus 1 V

PARAMETER	VALUE
Trigger Maximum Safe Input	2 Vdc plus AC peak (+16 dBm)
Related Dual Channel Sibling	83484A (two 26.5/50 GHz channels)
Related Lower Bandwidth	83483A (12.4/20 GHz dual)
Bandwidth	Selectable: dc to 26.5 GHz or dc to 50 GHz (-3 dB)

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	
PARAMETER	VALUE
Dynamic Range	plus/minus 400 mV relative to channel offset
Maximum Safe Input	plus/minus 2 V dc plus peak AC; +16 dBm peak AC (characteristic)
Nominal Impedance	50 ohm
Input Reflections	5 percent for 30 ps risetime
Channel Connector	2.4 mm male
Trigger Bandwidth	2.5 GHz
Trigger Connector	3.5 mm male
Trigger Nominal Impedance	50 ohm

PARAMETER	VALUE
Trigger Level Range	plus/minus 1 V
Trigger Maximum Safe Input	2 Vdc plus AC peak (+16 dBm)
Related Dual Channel Sibling	83484A (two 26.5/50 GHz channels)
Related Lower Bandwidth	83483A (12.4/20 GHz dual)

Notes

Specs from HP/Agilent 83480A family datasheet electrical plug-in tables for 83484A/B. Confirm mainframe firmware and that the unit is the single-channel B, not dual-channel A.

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.