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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

## Agilent / Keysight 83484A Dual channel 50 GHz electrical module

HP Agilent 83484A Dual Channel 50 GHz Electrical Module The HP/Agilent 83484A is a dual-channel electrical plug-in for 83480A and 86100A/B/C/D DCA mainframes. OEM 83484A module data list selectable 26.5 GHz and 50 GHz bandwidths, 13.2 ps / 7 ps calculated 10-90 transition times, characteristic RMS noise 0.46 mV (26.5 GHz) and 0.92 mV (50 GHz), 2.4 mm inputs, and plus or minus 2 Vdc / 16 dBm maximum input. High-speed electrical eye and pulse measurements on 83480/86100 Infiniium DCA mainframes. Two electrical channels with selectable 26.5 or 50 GHz BW The HP/Agilent 83484A is a dual-channel electrical plug-in for 83480A and 86100A/B/C/D DCA mainframes. OEM 83484A module data list selectable 26.5 GHz and 50 GHz bandwidths, 13.2 ps / 7 ps calculated 10-90 transition times, characteristic RMS noise 0.46 mV (26.5 GHz) and 0.92 mV (50 GHz), 2.4 mm inputs, and plus or minus 2 Vdc / 16 dBm maximum input. High-speed electrical eye and pulse measurements on 83480/86100 Infiniium DCA mainframes. Two electrical channels with selectable 26.5 or 50 GHz BW 26.5 GHz setting for low noise on small signals



MODEL

**Agilent / Keysight  
83484A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**83484A**

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

**This unit**

The Agilent/Keysight 83484A is a dual-channel 50 GHz electrical module for high-speed signal acquisition and characterization in the frequency domain. It delivers low-noise measurements across DC to 50 GHz, with selectable 26.5 GHz bandwidth for optimized noise performance. The module accepts  $\pm 2$  Vdc maximum input on dual 50 ohm channels via 2.4 mm connectors, making it suitable for communication and radar component testing.

**Technical Specifications**

**Measurement**  
Bandwidth: DC to 50 GHz (standard); DC to 26.5 GHz (selectable) RMS Noise: 0.46 mV at 26.5 GHz bandwidth; 0.75 mV or 1.5 mV at 50 GHz bandwidth Maximum Input Signal:  $\pm 2$  Vdc Nominal Impedance: 50 ohm Electrical Input Connector: 2.4 mm (m)

**Trigger Specifications**

Limited Mode: DC to 100 MHz Normal Mode: DC to 2.5 GHz; minimum sensitivity 40 mVpp at 100 MHz to 200 mVpp at 2.5 GHz; trigger jitter  $< 2.5$  ps rms +  $5E-5 \times \text{delay}$  High Speed Mode (Option 100): 2.0 GHz to 12 GHz (1 GHz to 15 GHz typical); 200 mVpp sensitivity; trigger jitter  $< 2$  ps rms for delays under 100 ns (typical 1.3 ps) Trigger Level Range:  $\pm 1$  V Maximum Trigger Signal:  $< 2$  V dc + ac peak (+16 dBm) for both modes

**Key Features**

- Dual independent electrical channels for simultaneous multi-point measurements
- Selectable bandwidth optimizes noise performance for specific measurement requirements
- Multiple trigger modes accommodate DC to 12 GHz signal characterization
- Sub-2 ps trigger jitter in high-speed mode enables precise timing analysis
- 2.4 mm connectors support standard RF test configurations

**Compatibility & Integration**

The 83484A integrates with Keysight DCA mainframes: 83480A Digital Communications Analyzer, 86100A/B Infiniium DCA, 86100C Infiniium DCA-J, and 86100D Infiniium DCA-X. Status: Obsolete product.

## 83484A Characteristics / Specifications

| PARAMETER                         | VALUE                                                                        |
|-----------------------------------|------------------------------------------------------------------------------|
| Model                             | 83484A                                                                       |
| Instrument Type                   | Dual channel electrical sampling module                                      |
| Host Mainframes                   | 83480A 86100A 86100B 86100C 86100D                                           |
| Channel Count                     | 2                                                                            |
| Bandwidth Settings                | 26.5 GHz and 50 GHz                                                          |
| Transition Time 26.5 Ghz          | 13.2 ps (10 to 90 percent, TR = 0.35/BW)                                     |
| Transition Time 50 Ghz            | 7 ps (10 to 90 percent)                                                      |
| Rms Noise Characteristic 26.5 Ghz | 0.46 mV                                                                      |
| Rms Noise Characteristic 50 Ghz   | 0.92 mV                                                                      |
| Rms Noise Maximum 26.5 Ghz        | 0.75 mV                                                                      |
| Rms Noise Maximum 50 Ghz          | 1.5 mV                                                                       |
| Scale Factor Minimum              | 1 mV/division                                                                |
| Scale Factor Maximum              | 100 mV/division                                                              |
| Dc Offset Range                   | plus or minus 500 mV referenced two divisions from screen bottom             |
| Input Dynamic Range               | plus or minus 400 mV relative to channel offset                              |
| Maximum Input Power               | 16 dBm plus or minus 2 Vdc                                                   |
| Nominal Impedance                 | 50 ohm                                                                       |
| Electrical Input Connector        | 2.4 mm                                                                       |
| Reflections 30 Ps Rise            | 5 percent                                                                    |
| Manufacturer                      | HP Agilent Keysight                                                          |
| Mechanical Package                | DCA plug-in module                                                           |
| Dc Accuracy Note                  | single marker accuracy published separately for 26.5 GHz and 50 GHz settings |
| Bandwidth                         | Settings: 26.5 GHz and 50 GHz                                                |

# 83484A Specifications

| PARAMETER                                               | VALUE                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------|
| HP Agilent 83484A Dual Channel 50 GHz Electrical Module | Overview                                                                                  |
| Applications                                            | High-speed electrical eye and pulse measurements on 83480/86100 Infiniium DCA mainframes. |
| Key Features                                            | Two electrical channels with selectable 26.5 or 50 GHz BW                                 |
| Works in 83480A and 86100A/B/C/D                        | 26.5 GHz setting for low noise on small signals                                           |
| Technical Specifications                                | Model: 83484A                                                                             |

# 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                                                                                                                                                                                            |                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Specifications                                                                                                                                                                                            |                                                                              |
| PARAMETER                                                                                                                                                                                                 | VALUE                                                                        |
| Model                                                                                                                                                                                                     | 83484A                                                                       |
| Instrument Type                                                                                                                                                                                           | Dual channel electrical sampling module                                      |
| Host Mainframes                                                                                                                                                                                           | 83480A 86100A 86100B 86100C 86100D                                           |
| Channel Count                                                                                                                                                                                             | 2                                                                            |
| Bandwidth Settings                                                                                                                                                                                        | 26.5 GHz and 50 GHz                                                          |
| Transition Time 26.5 Ghz                                                                                                                                                                                  | 13.2 ps (10 to 90 percent, TR = 0.35/BW)                                     |
| Transition Time 50 Ghz                                                                                                                                                                                    | 7 ps (10 to 90 percent)                                                      |
| Rms Noise Characteristic 26.5 Ghz                                                                                                                                                                         | 0.46 mV                                                                      |
| Rms Noise Characteristic 50 Ghz                                                                                                                                                                           | 0.92 mV                                                                      |
| Rms Noise Maximum 26.5 Ghz                                                                                                                                                                                | 0.75 mV                                                                      |
| Rms Noise Maximum 50 Ghz                                                                                                                                                                                  | 1.5 mV                                                                       |
| Scale Factor Minimum                                                                                                                                                                                      | 1 mV/division                                                                |
| Scale Factor Maximum                                                                                                                                                                                      | 100 mV/division                                                              |
| Dc Offset Range                                                                                                                                                                                           | plus or minus 500 mV referenced two divisions from screen bottom             |
| Input Dynamic Range                                                                                                                                                                                       | plus or minus 400 mV relative to channel offset                              |
| Maximum Input Power                                                                                                                                                                                       | 16 dBm plus or minus 2 Vdc                                                   |
| Nominal Impedance                                                                                                                                                                                         | 50 ohm                                                                       |
| Electrical Input Connector                                                                                                                                                                                | 2.4 mm                                                                       |
| Reflections 30 Ps Rise                                                                                                                                                                                    | 5 percent                                                                    |
| Manufacturer                                                                                                                                                                                              | HP Agilent Keysight                                                          |
| Mechanical Package                                                                                                                                                                                        | DCA plug-in module                                                           |
| Dc Accuracy Note                                                                                                                                                                                          | single marker accuracy published separately for 26.5 GHz and 50 GHz settings |
| Notes                                                                                                                                                                                                     |                                                                              |
| From Agilent 83484A dual-channel 50 GHz electrical module specification block (83480/86100 plug-in). Some marketing sheets quote 0.75 mV characteristic noise at 50 GHz; the warranted maximum is 1.5 mV. |                                                                              |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.