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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 86115D 20/34 GHz Module for High-Volume/Parallel Optical Transceiver Test

Agilent Keysight 86115D Multi Port Optical DCA Module The Keysight 86115D is a multi-port optical plug-in for high-volume transceiver waveform test. OEM 86115D data sheet 5990-4002 lists two or four 20 GHz optical ports, or two 34 GHz ports (Option 282), 750 to 1650 nm, 62.5/125 μ m connector compatible with multimode and single-mode fiber, and reference-receiver filters for 8.5 through 14.025 Gb/s (and 25.78/27.95/28.05 Gb/s on Option 282). Parallel 8x/10x/16x Fibre Channel and 10 Gb/s transceiver production; 100GbE/OTU4/32xFC optical eyes with Option 282; high-volume multi-channel mask test. The Keysight 86115D is a multi-port optical plug-in for high-volume transceiver waveform test. OEM 86115D data sheet 5990-4002 lists two or four 20 GHz optical ports, or two 34 GHz ports (Option 282), 750 to 1650 nm, 62.5/125 μ m connector compatible with multimode and single-mode fiber, and reference-receiver filters for 8.5 through 14.025 Gb/s (and 25.78/27.95/28.05 Gb/s on Option 282). Parallel 8x/10x/16x Fibre Channel and 10 Gb/s transceiver production; 100GbE/OTU4/32xFC optical eyes with Option 282; high-volume multi-channel mask test.



MODEL

**Agilent / Keysight
86115D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

86115D

LISTING

<https://aumictechlabs.com/products/86115d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 86115D is a dual-channel 20/34 GHz optical receiver module engineered for high-volume parallel testing of optical transceivers. This module delivers wide bandwidth and low-noise performance across the 750 to 1650 nm wavelength range, with calibrated optical-to-electrical conversion gains at 850 nm, 1310 nm, and 1550 nm. It integrates with the Keysight 86100D DCA-X mainframe to enable rapid characterization of optical components in manufacturing environments.

Technical Specifications

Bandwidth 20 GHz unfiltered (characteristic) 34 GHz unfiltered (characteristic, Option 282)

Wavelength Coverage 750 to 1650 nm operating range

Calibrated wavelengths: 850 nm, 1310 nm, 1550 nm (± 20 nm)

Optical Sensitivity (8.5–11.317 Gb/s) 850 nm: –9 dBm (Option 002), –8 dBm (Option 004) 1310 nm: –12 dBm (Option 002), –11 dBm (Option 004) 1550 nm: –12 dBm (Option 002), –11 dBm (Option 004)

Optical Sensitivity (14.025 Gb/s) 850 nm: –6 dBm (Option 002), –5 dBm (Option 004) 1310 nm: –9 dBm (Option 002), –8 dBm (Option 004) 1550 nm: –8 dBm (Option 002), –8 dBm (Option 004)

Supported Data Rates & Standards 8x Fibre Channel (8.500 Gb/s) OC-192/STM-64 (9.953 Gb/s) 10 Gb Ethernet (10.3125 Gb/s) 10x Fibre Channel (10.51875 Gb/s) 16x Fibre Channel (14.025 Gb/s) 25 Gb Ethernet (25.78125 Gb/s) Option 282 32x Fibre Channel (28.05 Gb/s) Option 282

Transition Time (10%–90%) 24 ps unfiltered 15 ps (Option 282)

RMS Noise (Characteristic) 8.5–11.317 Gb/s @ 850 nm: 10 μ W (Option 002), 12 μ W (Option 004) 8.5–11.317 Gb/s @ 1310 nm: 5 μ W (Option 002), 6 μ W (Option 004) 14.025 Gb/s @ 850 nm: 16 μ W (Option 002), 20 μ W (Option 004) Option 282 @ 25.78125 Gb/s: 17 μ W

Compatibility & Integration Module integrates with the Keysight 86100D DCA-X mainframe for flexible, scalable optical transceiver test architectures.

86115D Characteristics / Specifications

PARAMETER	VALUE
Model	86115D
Instrument Type	Multi-port optical sampling oscilloscope plug-in
Series Family	Keysight 86100 DCA modules
Wavelength Range	750 nm to 1650 nm
Fiber Connector	62.5/125 um, compatible with multimode and single-mode
Port Count Standard	two or four 20 GHz optical ports
Port Count Option 2	two 34 GHz optical ports
Filter 8.5 Gbd	8x Fibre Channel
Filter 9.953 Gbd	OC-192 / STM-64
Filter 10.3125 Gbd	10 Gigabit Ethernet
Filter 10.52 Gbd	10x Fibre Channel
Filter 14.025 Gbd	16x Fibre Channel
Filter 25.78 Gbd Option 2	100 Gigabit Ethernet
Filter 27.95 Gbd Option 2	OTU4 class
Filter 28.05 Gbd Option 2	32x Fibre Channel
Optical Performance Reference	identical to 86105D optical channel
Host Mainframe	86100C DCA-J and 86100D DCA-X
Compliance Rates Standard	8.5, 9.953, 10.3125, 10.52, and 14.025 Gb/s
Photodetector Type	broad-wavelength optical receiver 750 to 1650 nm
Form Factor	86100 plug-in module
Measurement Type	high-fidelity optical waveform and eye-mask
Bandwidth	Standard: 20 GHz unfiltered

86115D Specifications

PARAMETER	VALUE
Agilent Keysight 86115D Multi Port Optical DCA Module	Overview
Broad 750 to 1650 nm photodetector	Fits 86100C/D DCA-J/DCA-X mainframes
Technical Specifications	Model: 86115D

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.

performance identical to the 86105D optical channel	
Switchable reference receivers at the listed compliance rates	
Broad 750 to 1650 nm photodetector	
Fits 86100C/D DCA-J/DCA-X mainframes	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	86115D
Instrument Type	Multi-port optical sampling oscilloscope plug-in
Series Family	Keysight 86100 DCA modules
Optical Bandwidth Standard	20 GHz unfiltered
Optical Bandwidth Option 282	34 GHz optical channel
Wavelength Range	750 nm to 1650 nm
Fiber Connector	62.5/125 um, compatible with multimode and single-mode
Port Count Standard	two or four 20 GHz optical ports
Port Count Option 282	two 34 GHz optical ports
Filter 8.5 Gbd	8x Fibre Channel
Filter 9.953 Gbd	OC-192 / STM-64
Filter 10.3125 Gbd	10 Gigabit Ethernet
Filter 10.52 Gbd	10x Fibre Channel
Filter 14.025 Gbd	16x Fibre Channel
Filter 25.78 Gbd Option 282	100 Gigabit Ethernet
Filter 27.95 Gbd Option 282	OTU4 class
Filter 28.05 Gbd Option 282	32x Fibre Channel
Optical Performance Reference	identical to 86105D optical channel
Host Mainframe	86100C DCA-J and 86100D DCA-X
Compliance Rates Standard	8.5, 9.953, 10.3125, 10.52, and 14.025 Gb/s
Photodetector Type	broad-wavelength optical receiver 750 to 1650 nm
Form Factor	86100 plug-in module
Measurement Type	high-fidelity optical waveform and eye-mask

Notes

Numeric rows from Keysight 86115D Multi-Port Plug-In Module for High-Volume/Parallel Optical Transceiver Test data sheet 5990-4002. Detailed noise/sensitivity tables match the 86105D optical-channel sheet and are not duplicated here.

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