

KEYSIGHT TECHNOLOGIES (AGILENT HP)

86116C

The Keysight (Agilent HP) 86116C is an ultra high-speed optical and electrical plug-in module designed for the 86100C Infiniium DCA-J oscilloscope mainframe. It offers up to 70 GHz optical bandwidth and 93 GHz electrical bandwidth, providing exceptional pulse fidelity for characterizing signals in the 10 to 100 Gb/s range, including 40G SONET/SDH, 25G Ethernet, and 16G Fibre Channel.

SPECIFICATIONS

Physical

Operating Temperature	+10 to +40 °C
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Optical Channel Specifications

Characteristic Optical Bandwidth	70 GHz (Option 040) / 45 GHz (Option 025)
Reference Receiver Rates	39.8 and 43.0 Gb/s NRZ (Option 040) / 17, 25.8, and 27.7 Gb/s NRZ (Option 025)

Electrical Channel Specifications

Characteristic Electrical Bandwidth	93 GHz
Electrical Bandwidth Settings	93 GHz, 55 GHz, 30 GHz

Connectivity and Interfaces

Recommended Precision Timebase	86107A module
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Applications

Supported Applications (Option 040)	40G SONET/SDH and faster signals
Supported Applications (Option 025)	25G Ethernet (x4 for 100 GbE) and 16G Fibre Channel (single-mode variants)

Optical Input

Fiber Type	Single-mode (9/125 μm)
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Inputs & Outputs

Optical Connector Interface	Keysight universal adapter (81000xl series)
Number of Optical Channels	1
Number of Electrical Channels	1
Electrical Input Connector	1.0 mm (male)
Electrical Input Impedance	50 Ω (nominal)

General

Warm-up Time	1 hour (for specifications to be valid)
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TECHNOLOGY

Optical / Electrical Oscilloscope Plug-in

APPLICATIONS

High-speed telecom (40G SONET/SDH), LAN/SAN (25G Ethernet, 16G Fibre Channel), 10 to 100 Gb/s waveform analysis

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.