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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 83492A Optical clock recovery module

Keysight / Agilent 83492A Optical Clock Recovery Module The Keysight/Agilent 83492A is an optical clock recovery module for 86100-series DCA communications analyzers. OEM clock-recovery module tables specify optical input wavelength bands and supported data rates for recovering clock from optical serial streams. Optical transceiver eye tests, recovered-clock optical jitter analysis, and DCA triggering from optical data. Enables optical eye and jitter measurements The Keysight/Agilent 83492A is an optical clock recovery module for 86100-series DCA communications analyzers. OEM clock-recovery module tables specify optical input wavelength bands and supported data rates for recovering clock from optical serial streams. Optical transceiver eye tests, recovered-clock optical jitter analysis, and DCA triggering from optical data. Enables optical eye and jitter measurements Instrument Type: Optical clock recovery module



MODEL

**Agilent / Keysight
83492A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83492A

LISTING

<https://aumictechlabs.com/products/83492a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 83492A Optical Clock Recovery module extracts clock signals from high-speed optical data streams for use in the 86100 family of Infiniium DCA oscilloscopes. This plug-

in module integrates clock recovery directly into the measurement platform, eliminating the need for external triggering hardware when working with multimode fiber. It supports a broad wavelength range and multiple standard optical data rates, making it suitable for optical transceiver characterization and optical communication system analysis.

Technical Specifications
Wavelength Range: 750–1600 nm Supported Data Rates: 0.155, 0.622, 1.060, 1.250, 2.125, 2.488, 2.500 Gb/s PLL Bandwidth (Internal Triggering): 50–70 kHz PLL Bandwidth (External Output): 4–5 MHz Input Power (760–850 nm): –10 to +3 dBm Input Power (1000–1600 nm): –13 to +3 dBm Fiber Type: 62.5/125 multimode fiber

Key Features Integrated clock recovery eliminates external triggering requirements Wide wavelength coverage from 750 to 1600 nm Dual PLL bandwidth modes for flexible synchronization control Support for legacy and contemporary optical data rates Standard Agilent optical interface (connectors sold separately)

Typical Applications Optical transceiver testing and validation Signal integrity analysis in optical communication systems Timing and synchronization characterization in high-speed optical links Clock extraction from multimode fiber installations

Compatibility & Integration The 83492A is a plug-in module for Keysight 86100 family oscilloscopes (86100A/B, 86100C, 86100D). It was originally designed for the Agilent 83480A digital communications analyzer platform. Optical interface connectors are available separately as part of the Agilent 81000xl Series.

83492A Characteristics / Specifications

PARAMETER	VALUE
Model	83492A
Instrument Type	Optical clock recovery module
Host Family	86100 series DCA
Input Type	Optical
Measurement Role	Recover clock from optical serial data
Primary Use	Optical eye/jitter trigger recovery
Data Rate Coverage	Per 83492A option tables
Wavelength Coverage	Per optical input option tables
Safety Class	Observe published maximum ratings
Chassis Form	DCA plug-in module class
Brand Lineage	Keysight / Agilent
Related Modules	83491A electrical CR; 83495A CR family
Control Path	Host DCA module control
Remote Interfaces	Through host analyzer
Documentation Scope	OEM 83492A documentation
Operating Temperature Spec Class	Follow DCA system sheet
Power	Derived from host mainframe
Lock Modes	Optical clock recovery lock modes per sheet
Jitter Analysis Support	Recovered clock for DCA jitter apps
Installed Options	Determine rate and wavelength bands
Warmup Spec Class	Follow host DCA warm-up
Calibration	System calibration with host DCA
Connector Class	Optical fiber connectors per option
Data Rate	Coverage: Per 83492A option tables
Operating temperature	Spec Class: Follow DCA system sheet

83492A Specifications

PARAMETER	VALUE
Keysight / Agilent 83492A Optical Clock Recovery Module	Overview
Optical clock recovery	86100 DCA modular accessory
Technical Specifications	Model: 83492A
Notes	From Keysight/Agilent 83492A optical clock recovery documentation. Optical sensitivity and wavelength limits are option-specific.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec Class: Follow DCA system sheet
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Power	Derived from host mainframe
Lock Modes	Optical clock recovery lock modes per sheet
Jitter Analysis Support	Recovered clock for DCA jitter apps
Installed Options	Determine rate and wavelength bands
Warmup Spec Class	Follow host DCA warm-up
Calibration	System calibration with host DCA
Connector Class	Optical fiber connectors per option Notes From Keysight/Agilent 83492A optical clock recovery documentation. Optical sensitivity and wavelength limits are option-specific.

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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Installed Options	Determine rate and wavelength bands
Warmup Spec Class	Follow host DCA warm-up
Calibration	System calibration with host DCA
Connector Class	Optical fiber connectors per option
Notes	
From Keysight/Agilent 83492A optical clock recovery documentation. Optical sensitivity and wavelength limits are option-specific.	

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 ·
30-day returns
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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.