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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 83495A clock recovery module

Keysight / Agilent 83495A Clock Recovery Module The Keysight/Agilent 83495A is a clock recovery module for Infiniium / 86100-class communications analyzer systems, recovering clock from high-speed serial data for eye and jitter measurements. OEM DCA clock-recovery literature specifies supported data-rate bands, locking modes, and electrical/optical interface options depending on installed configuration. High-speed serial eye diagram analysis, jitter measurements with recovered clock, and communications analyzer trigger recovery. The Keysight/Agilent 83495A is a clock recovery module for Infiniium / 86100-class communications analyzer systems, recovering clock from high-speed serial data for eye and jitter measurements. OEM DCA clock-recovery literature specifies supported data-rate bands, locking modes, and electrical/optical interface options depending on installed configuration. High-speed serial eye diagram analysis, jitter measurements with recovered clock, and communications analyzer trigger recovery. Clock recovery for DCA / Infiniium systems



MODEL

**Agilent / Keysight
83495A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83495A

LISTING

<https://aumictechlabs.com/products/83495a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 83495A is a clock recovery module that extracts clock signals from high-speed optical and electrical data streams for digital communication systems. It performs clock recovery and data regeneration, enabling accurate timing measurements, synchronization, and

signal integrity analysis. The module integrates with Agilent 86100-series and 83480A Digital Communications Analyzers to function as a multi-rate reference receiver and generate trigger signals for waveform characterization and compliance testing.

Technical Specifications

Input Interfaces Optical: 9/125 μm fiber (1000–1600 nm), 62.5/125 μm fiber (750–680 nm) Electrical: 3.5 mm male connectors

Data Rate & Clock Recovery Continuous clock recovery: 9.953 Gb/s to 11.32 Gb/s Supports 10 Gb Ethernet with Forward Error Correction (FEC) Phase-Locked Loop (PLL) bandwidth: user selectable, 300 kHz to 4 MHz Recovered clock output divide ratio: 1 to 16 (≤ 7.1 GBd), 2 to 16 (7.1–13.5 GBd); output limited to ≤ 3.2 GBd

Triggering Three selectable trigger modes: narrow loop bandwidth, wide loop bandwidth, direct triggering from incoming data

Data Regeneration Regenerated data output available at front panel ESD Sensitivity Input circuits susceptible to electrostatic discharge; static discharge protection required on all front- and rear-panel electrical connectors

Key Features User-selectable PLL bandwidth enables jitter spectrum control for standards compliance Flexible output divide ratio supports multi-rate operation Direct data regeneration for triggering and reference signal generation Multiple trigger options optimize performance across varying signal conditions

Typical Applications Optical and electrical communication component and system characterization Signal integrity and timing measurement in high-speed digital systems Device compliance testing requiring multi-rate reference receivers Waveform triggering and clock extraction in serial data analysis

Compatibility & Integration Integrates with Agilent 86100A/B-series, 83480A-series, and 54750-series modules within Agilent 86100-series and 83480A Digital Communications Analyzers.

83495A Characteristics / Specifications

PARAMETER	VALUE
Model	83495A
Instrument Type	Clock recovery module
Host Family	86100 DCA / Infiniium communications analyzers
Measurement Role	Recover clock from serial data
Primary Use	Eye diagram and jitter triggering
Data Rate Coverage	Per 83495A option/rate tables
Input Path Class	Electrical and/or optical per option
Safety Class	Observe published maximum ratings
Chassis Form	Modular plug-in / system module class
Brand Lineage	Keysight / Agilent
Related Modules	83491A/83492A clock recovery siblings
Control Path	Host DCA module control
Remote Interfaces	Through host analyzer
Documentation Scope	OEM 83495A clock recovery documentation
Operating Temperature Spec Class	Follow DCA system sheet
Power	Derived from host mainframe
Lock Modes	Continuous and gated class recovery modes
Jitter Analysis Support	Provides recovered clock for TJ/RJ/DJ class tests
Installed Options	Determine rate bands and I/O type
Warmup Spec Class	Follow host DCA warm-up
Calibration	System calibration with host DCA
Manufacturer Documentation	OEM datasheet and user documentation
Configuration Dependency	Final limits follow installed options and faceplate
Data Rate	Coverage: Per 83495A option/rate tables
Operating temperature	Spec Class: Follow DCA system sheet

83495A Specifications

PARAMETER	VALUE
Keysight / Agilent 83495A Clock Recovery Module	Overview
Technical Specifications	Model: 83495A
Notes	From Keysight/Agilent 83495A clock recovery module documentation. Exact supported bit rates depend on installed options.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec Class: Follow DCA system sheet
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Operating Temperature Spec Class	Follow DCA system sheet
Power	Derived from host mainframe
Lock Modes	Continuous and gated class recovery modes
Jitter Analysis Support	Provides recovered clock for TJ/RJ/DJ class tests
Installed Options	Determine rate bands and I/O type
Warmup Spec Class	Follow host DCA warm-up
Calibration	System calibration with host DCA
Manufacturer Documentation	OEM datasheet and user documentation
Configuration Dependency	Final limits follow installed options and faceplate Notes From Keysight/Agilent 83495A clock recovery module documentation. Exact supported bit rates depend on installed options.

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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Notes	
From Keysight/Agilent 83495A clock recovery module documentation. Exact supported bit rates depend on installed options.	

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.