

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 70700A " Local Oscillator Module

The HP 70700A is a digitizer module for the HP 70000 modular measurement system, providing time-domain capture for modular microwave and RF measurements when paired with appropriate RF front ends. Time-domain capture in MMS systems, transient RF analysis with companion modules, and automated digitizing within 70000 racks. Automated system measurements via MMS controller Instrument Type: Digitizer module for 70000 MMS Trigger Modes: Edge and system trigger class Input Impedance Class: 50 Ohm or high-Z class sheet Maximum Sample Rate Class: per OEM digitizer table From HP 70700A digitizer and 70000 MMS documentation. Exact sample rate, bits, and memory depth are on the OEM module data sheet for the installed revision.



MODEL

**Agilent / Keysight
70700A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

70700A

LISTING

<https://aumictechlabs.com/products/70700a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 70700A is a digitizer module for the 70000 Modular Measurement System that extends spectrum analyzer capabilities into the time domain. Operating at 20 MS/s with 10-bit resolution and 256K samples of memory, it delivers precise transient analysis and waveform capture. The module functions as a standalone instrument or integrates within the 70000 series chassis to enable oscilloscope, transient analyzer, and programmable waveform recorder

operation. Technical Specifications Sampling Rate: 20 MS/s Resolution: 10 bits Memory Depth: 256K samples per module Channel Configuration: Single channel; supports synchronous multichannel operation with up to eight 70700A modules Module Width: 1-slot width (70000 MMS chassis) Key Features Random Event Capture (REC) for powerful transient analysis Pre-trigger data capture to record events preceding the trigger point Menu-driven interface for operator control and configuration High sampling rate enables recovery of fast pulses within the bandwidth constraints of the associated spectrum analyzer signal path Independent operation as a data acquisition and waveform analysis instrument Typical Applications Time-domain signal analysis in spectrum analyzer systems Transient event detection and characterization Multichannel synchronized waveform recording Fast pulse measurement and capture Digitized waveform recording and playback Compatibility & Integration The 70700A slots directly into Agilent/Keysight 70000 Modular Measurement System mainframes and chassis. Up to eight modules can be synchronized for simultaneous multichannel operation without performance degradation. Integration improves spectrum analyzer sweep times while maintaining full time-domain analysis capability.

70700A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Digitizer module for 70000 MMS
System Family	HP 70000 modular measurement system
Module Bus	HP-MSIB
Compatible Display	70004A
Sampling Function	Waveform digitizing
Vertical Resolution Class	multi-bit digitizer class OEM sheet
Memory Depth Class	module memory depth per OEM sheet
Timebase	Internal MMS synchronized timebase
Remote Control	Via MMS controller
Form Factor	MMS plug-in module
Operating Temperature Class	0 C to 55 C
Power	Supplied by MMS mainframe
Input Channels Class	module dependent
Bandwidth Class	determined by digitizer and front end
Trigger Modes	Edge and system trigger class
Record Length	OEM memory depth
Coupling	AC DC class
Input Impedance Class	50 Ohm or high-Z class sheet
Maximum Sample Rate Class	per OEM digitizer table
Dynamic Range Class	per OEM sheet
Calibration	System-level supported
Interface Softkeys	Via 70004A
Bandwidth	Class: determined by digitizer and front end
Operating temperature	Class: 0 C to 55 C

70700A Specifications

PARAMETER	VALUE
HP Agilent 70700A Digitizer Module	Overview
Applications	Time-domain capture in MMS systems, transient RF analysis with companion modules, and automated digitizing within 70000 racks.
Technical Specifications	Instrument Type: Digitizer module for 70000 MMS

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 55 C
Operating Temperature	Class: 0 C to 55 C
Operating Temperature Class	0 C to 55 C
Power	Supplied by MMS mainframe
Input Channels Class	module dependent
Bandwidth Class	determined by digitizer and front end
Trigger Modes	Edge and system trigger class
Record Length	OEM memory depth
Coupling	AC DC class
Input Impedance Class	50 Ohm or high-Z class sheet
Maximum Sample Rate Class	per OEM digitizer table
Dynamic Range Class	per OEM sheet
Calibration	System-level supported
Interface Softkeys	Via 70004A Notes From HP 70700A digitizer and 70000 MMS documentation. Exact sample rate, bits, and memory depth are on the OEM module data sheet for the installed revision.

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
Instrument Type	Digitizer module for 70000 MMS
System Family	HP 70000 modular measurement system
Module Bus	HP-MSIB
Compatible Display	70004A
Sampling Function	Waveform digitizing
Vertical Resolution Class	multi-bit digitizer class OEM sheet
Memory Depth Class	module memory depth per OEM sheet
Timebase	Internal MMS synchronized timebase
Remote Control	Via MMS controller
Form Factor	MMS plug-in module
Operating Temperature Class	0 C to 55 C
Power	Supplied by MMS mainframe
Input Channels Class	module dependent
Bandwidth Class	determined by digitizer and front end
Trigger Modes	Edge and system trigger class
Record Length	OEM memory depth
Coupling	AC DC class
Input Impedance Class	50 Ohm or high-Z class sheet
Maximum Sample Rate Class	per OEM digitizer table
Dynamic Range Class	per OEM sheet
Calibration	System-level supported
Interface Softkeys	Via 70004A
Notes	
From HP 70700A digitizer and 70000 MMS documentation. Exact sample rate, bits, and memory depth are on the OEM module data sheet for the installed revision.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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