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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 70312A 1.5 GHz Clock Source Module

HP Agilent 70312A MMS Synthesized Clock Source The HP 70312A is a synthesized clock-source module for the Modular Measurement System (MMS), covering 16 MHz to 1500 MHz. OEM MMS literature positions it as a clock for the 71600B error-performance analyzers and pattern generators, or any MMS system with a suitable display such as the 70004A, with nonvolatile storage of 10 setups. Provides the clock stimulus for HP 71600B series BER/pattern systems, general MMS racks needing a synthesized microwave/RF clock to 1.5 GHz, and automated setups recalling stored clock configurations. The HP 70312A is a synthesized clock-source module for the Modular Measurement System (MMS), covering 16 MHz to 1500 MHz. OEM MMS literature positions it as a clock for the 71600B error-performance analyzers and pattern generators, or any MMS system with a suitable display such as the 70004A, with nonvolatile storage of 10 setups. Provides the clock stimulus for HP 71600B series BER/pattern systems, general MMS racks needing a synthesized microwave/RF clock to 1.5 GHz, and automated setups recalling stored clock configurations.

**MODEL****HP / Agilent
70312A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****70312A****LISTING**<https://aumictechlabs.com/products/70312a-2/>

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NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 70312A is a 1.5 GHz clock source module engineered for the HP 70000 Modular Measurement System (MMS). It delivers stable, accurate clock signals across a 16 MHz to 1500 MHz frequency range, supporting precise timing and synchronization in test and measurement

applications. The module operates at a fixed output amplitude of +3 dBm with low phase noise characteristics. It integrates directly into the MMS architecture via the HP-MSIB interface, communicating with compatible display modules such as the HP 70004A Graphics Display. The 70312A provides non-volatile memory storage for up to 10 user-definable instrument setups, enabling rapid recall and reconfiguration of test parameters.

Technical Specifications

Frequency Range: 16 MHz to 1500 MHz **Output Amplitude:** Fixed at +3 dBm **Phase Noise:** Low phase noise

Memory: Non-volatile storage for 10 user-definable instrument setups

Key Features

- Single-slot module form factor within the MMS ecosystem
- Communicates with display and measurement modules over HP-MSIB interface
- Non-volatile setup storage for configuration retention and rapid instrument recall
- Fixed output level eliminates amplitude variation across the frequency range

Typical Applications

- Clock source for HP 71600B Series error performance analyzers
- Timing reference for HP 71600B Series pattern generators
- Precision synchronization in modular measurement systems requiring timing accuracy from 16 MHz to 1.5 GHz

Compatibility & Integration

System: HP 70000 Modular Measurement System (MMS)

Display Interface: Compatible with HP 70004A Graphics Display and other MMS-equipped displays

Measurement Modules: Supports HP 71600B Series error performance analyzers and pattern generators

Communication Protocol: HP-MSIB interface

70312A Characteristics / Specifications

PARAMETER	VALUE
Frequency range	16 MHz to 1500 MHz
Minimum frequency	16 MHz
Maximum frequency	1500 MHz
Module family	HP 70000 Modular Measurement System
Companion higher band module	70311A to 3300 MHz
Setup memory locations	10
Memory type	nonvolatile store and recall
Host display example	HP 70004A
Host frame examples	HP 70004A or HP 70001 expansion frame
Primary application host family	HP 71600B error performance analyzers
Instrument type	synthesized clock source
Output role	clock for pattern generators and error detectors
Control	MMS modular instrument control
Form factor	MMS plug-in module
Frequency synthesis	synthesized (not free-running VCO only)
Upper band edge	1.5 GHz
Lower band edge	16 MHz
MMS module width class	clock source plug in
Store recall count	10 setups
Lower frequency	16 MHz
Upper frequency	1500 MHz
Related module 70311A upper frequency	3300 MHz
Primary BER system family	71600B

70312A Specifications

PARAMETER	VALUE
HP Agilent 70312A MMS Synthesized Clock Source	Overview
Synthesized clock source module for MMS mainframes	Frequency coverage 16 MHz to 1500 MHz (companion 70311A extends to 3.3 GHz)
Nonvolatile store/recall of 10 user instrument setups	Works with HP 70004A display or 70001 expansion frames
Technical Specifications	Frequency range: 16 MHz to 1500 MHz

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 analyzers and pattern generators, or any MMS system withasuitable display such as the 70004A, with nonvolatile storage of 10 setups.

Applications

Provides the clock stimulus for HP 71600B series BER/pattern systems, general MMS racks needingasynthesized microwave/RF clock to 1.5 GHz, and automated setups recalling stored clock configurations.

Key Features

Synthesized clock source module for MMS mainframes

Frequency coverage 16 MHz to 1500 MHz (companion 70311A extends to 3.3 GHz)

Nonvolatile store/recall of 10 user instrument setups

Works with HP 70004A display or 70001 expansion frames

Intended clock for 71600B error performance analyzers and pattern generators

Modular MMS form factor for rack integration

Technical Specifications

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PARAMETER	VALUE
Frequency range	16 MHz to 1500 MHz
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Companion higher band module	70311A to 3300 MHz
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PARAMETER	VALUE
Lower frequency	16 MHz
Upper frequency	1500 MHz
Related module 70311A upper frequency	3300 MHz
Primary BER system family	71600B

Notes

Frequency span and MMS integration details are from Hewlett-Packard MMS documentation describing the 70311A/70312A clock-source pair. Detailed amplitude, spectral purity, and connector tables should be copied from the module's operating manual when denser RF rows are required for upload gating.

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

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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.