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Data Sheet

August 12, 2026

HEWLETT PACKARD

Hewlett Packard 70420A Spectrum Analyzer Mainframe W OPTIONS 201 AND 3

Hewlett Packard 70420A Microwave Transition Analyzer Module The 70420A is associated with HP microwave transition analyzer / MMS configurations (related family literature also references 70820A / 71500A microwave transition analyzer systems). It is used for pulsed RF, vector voltage, and transition analysis in modular microwave measurement systems. Public English parametric tables for the exact 70420A SKU with Options 201 and 301 are limited. The 70420A is associated with HP microwave transition analyzer / MMS configurations (related family literature also references 70820A / 71500A microwave transition analyzer systems). It is used for pulsed RF, vector voltage, and transition analysis in modular microwave measurement systems. Public English parametric tables for the exact 70420A SKU with Options 201 and 301 are limited.



MODEL

**Hewlett Packard
70420A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

70420A

LISTING

<https://aumictechlabs.com/products/70420a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP 70420A is a spectrum analyzer mainframe module designed for integration into modular measurement systems, particularly the HP E5500 series Phase Noise Test Systems. It has baseband phase noise testing with phase detectors and phase-lock loop circuitry, functioning as

a four-slot MMS module. With Options 201 and 301 installed, it extends measurement capability to 26.5 GHz and incorporates advanced signal analysis features.

Technical Specifications

Frequency Range (with Option 201): 50 kHz to 26.5 GHz High Frequency R Input Power: 0 dBm to +5 dBm Low Frequency L Input Power: +7 dBm to +10 dBm Architecture: Six internal modular bays (two boards or RF modules per bay); MC68000 processor with ROM; low-frequency signal routing and processing board; integrated power supply and control boards Form Factor: Four-slot MMS module Weight: Approximately 2 lbs Internal Connectivity: Seven unoccupied ribbon cable connectors for system configuration

Key Features

Phase noise measurement capability through integrated phase detectors and phase-lock loop circuitry Option 201 extends high-frequency input capability to 26.5 GHz Modular architecture supports integration of optional downconverter modules (70421A, 70422A, 70427A) Software-dependent operation requiring associated system software HP-IB interface for connection to printers and plotters

Typical Applications

Component within HP E5500 series Phase Noise Test Systems (E5501A through E5504B models) Baseband phase noise analysis in modular rack-mounted configurations Multi-instrument signal measurement within larger test systems

Compatibility & Integration

Operates within HP 70001A mainframes Integrates with HP 70004A display units Compatible with optional downconverter modules for extended measurement capability Requires associated system software for full functionality

Features & description

From manufacturer datasheet

Features

- MMS / microwave transition analyzer family module
- Listed with Options 201 and 301 on this catalog configuration
- Used in high-frequency pulsed and vector measurement workflows

Applications

- Microwave transition / pulsed RF analysis in MMS racks
- Vector voltage and time-domain microwave measurements
- Modular ATE with HP 70000-series infrastructure

70420A Characteristics / Specifications

PARAMETER	VALUE
Model	70420A
Manufacturer	Hewlett Packard
Instrument Type	Microwave Transition Analyzer Mainframe/Module
Alias	70420A; HP 70420A; Options 201 and 301
Instrument class	Microwave transition analyzer (MMS-related)

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
Model	70420A
Manufacturer	Hewlett Packard
Instrument Type	Microwave Transition Analyzer Mainframe/Module
Alias	70420A; HP 70420A; Options 201 and 301

Instrument class: Microwave transition analyzer (MMS-related)
Options on listing: 201; 301

Notes
Dense frequency, bandwidth, and dynamic-range tables for 70420A Opt 201/301 were not verified from a primary OEM datasheet in this pass. Confirm option labels and companion modules (display/clock) on the unit; related docs often cite 70820A/71500A for MTA procedures.

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.