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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 70810A – Spectrum Analyzer Module

Agilent HP 70810A Spectrum Analyzer Module The HP 70810A is an MMS spectrum analyzer plug-in module for the 70000 modular measurement system. OEM HP 70000 module catalogs place the 70810A as an RF/microwave spectrum analyzer module used with 70004A-class displays for modular spectrum analysis. Modular RF and microwave spectrum analysis in HP 70000 MMS mainframes. Instrument Type: MMS spectrum analyzer module The HP 70810A is an MMS spectrum analyzer plug-in module for the 70000 modular measurement system. OEM HP 70000 module catalogs place the 70810A as an RF/microwave spectrum analyzer module used with 70004A-class displays for modular spectrum analysis. Modular RF and microwave spectrum analysis in HP 70000 MMS mainframes. Instrument Type: MMS spectrum analyzer module Frequency Coverage Class: RF microwave MMS SA class



MODEL

**Agilent / Keysight
70810A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

70810A

LISTING

<https://aumictechlabs.com/products/70810a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 70810A is a 1/8-width lightwave section module that extends modular spectrum analyzer systems into the optical domain. It detects and displays intensity modulation on lightwave signals transmitted over single-mode optical fiber, operating across the 1200 nm to 1600 nm wavelength range (750 nm to 870 nm with Option 850). The module processes

modulation bandwidths from 100 kHz to 22 GHz with input noise equivalent power of -64 dBm/root Hz. Technical Specifications Wavelength Range: 1200 nm to 1600 nm (standard); 750 nm to 870 nm (Option 850) Detected Modulation Bandwidth: 100 kHz to 22 GHz Input Noise Equivalent Power: -64 dBm/root Hz Optical Attenuation: 0 to 30 dB in 1 dB steps (manual attenuator) Form Factor: 1/8-width module Input Connectors: Optical input connector, electrical input connector Communication Interfaces: HP-IB, HP-MSIB Operating Modes: Standard slave module or independent stand-alone operation Key Features Manual optical attenuator with 1 dB step resolution enables precise signal level control RF bypass mode allows direct RF input-to-output connection, bypassing the optical attenuator Modular design integrates into larger spectrum analyzer systems or operates independently Low input noise floor supports detection of weak optical modulation signals Typical Applications Optical signal modulation analysis on single-mode fiber links Integration with fixed-wavelength or tunable laser sources for signal characterization Insertion loss and return loss measurements when combined with 8163B mainframe, power sensor, and calibrated reference cable Lightwave component testing in modular test configurations Compatibility & Integration The 70810A integrates into HP 71100C and HP 71210C spectrum analyzers, HP 70000 Series modular systems, and 816x lightwave mainframes. It is fully compatible with the 8163B mainframe for enhanced measurement capability. Installation Category II; Pollution Degree 2. Requires grounded power cable and adequate ventilation - forced convection is mandatory if total cabinet power dissipation exceeds 800 watts.

70810A Characteristics / Specifications

PARAMETER	VALUE
Model	70810A
Instrument Type	MMS spectrum analyzer module
Form Factor	MMS plug in module
Host Mainframe	HP 70000 series
Display Example	HP 70004A class
Remote Control	HP IB via MMS
Series Family	HP 70000 MMS
Manufacturer	Hewlett Packard / Agilent
Use Case	modular spectrum analysis
Frequency Coverage Class	RF microwave MMS SA class
Resolution Bandwidth Class	selectable RBW on module
Reference Level Class	calibrated log display
Amplitude Units	dBm class
Operating Temperature Class	0 C to 55 C
Storage Temperature Class	minus 40 C to 70 C class
Power	MMS backplane
Cooling	MMS chassis airflow
Calibration	MMS SA amplitude cal
Input Connector Class	precisionNor APC type
Dynamic Range Class	MMS SA dynamic range
Noise Floor Class	RBW dependent
Span Control	full to zero span class
Bandwidth	Class: selectable RBW on module
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C

70810A Specifications

PARAMETER	VALUE
Agilent HP 70810A Spectrum Analyzer Module	Overview
Applications	Modular RF and microwave spectrum analysis in HP 70000 MMS mainframes.
MMS spectrum analyzer plug in	70000 series modular architecture
Technical Specifications	Model: 70810A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C
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Storage Temperature Class	minus 40 C to 70 C class
Power	MMS backplane
Cooling	MMS chassis airflow
Calibration	MMS SA amplitude cal
Input Connector Class	precisionNor APC type
Dynamic Range Class	MMS SA dynamic range
Noise Floor Class	RBW dependent
Span Control	full to zero span class Notes Module identity and MMS role from HP/Agilent 70810A 70000-series catalog listings. Exact start/stop frequency limits are on the module option faceplate.

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	
Module identity and MMS role from HP/Agilent 70810A 70000-series catalog listings. Exact start/stop frequency limits are on the module option faceplate.	

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 ·
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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.