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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 83732A Synthesized signal generator, 0.01-20GHz

HP / Agilent 83732A Synthesized Signal Generator 10 MHz to 20 GHz The HP/Agilent 83732A is the A-revision 10 MHz to 20 GHz synthesized signal generator, predecessor of the 83732B. Frequency coverage is 10 MHz to 20 GHz with 1 kHz resolution. It provides pulse, AM, and FM modulation like later B units. Use the B data sheet 5963-6615E for B-only improved harmonic and option codes; this file records A-model identity and the family frequency/power architecture documented with the 83731A/83732A user's guide lineage. The HP/Agilent 83732A is the A-revision 10 MHz to 20 GHz synthesized signal generator, predecessor of the 83732B. Frequency coverage is 10 MHz to 20 GHz with 1 kHz resolution. It provides pulse, AM, and FM modulation like later B units. Use the B data sheet 5963-6615E for B-only improved harmonic and option codes; this file records A-model identity and the family frequency/power architecture documented with the 83731A/83732A user's guide lineage. 10 MHz to 20 GHz modulated microwave stimulus on A-revision hardware; receiver and component test; ATE still programmed to 83731A/83732A command sets.



MODEL

**HP / Agilent
83732A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83732A

LISTING

<https://aumictechlabs.com/products/83732a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 83732A is a synthesized signal generator engineered for RF and microwave test applications spanning 0.01 GHz to 20 GHz. This instrument delivers precise signal generation with excellent spectral purity, adjustable output power, and versatile modulation modes including FM, pulse, and logarithmic AM. It serves radar, electronic warfare, and telecommunications characterization with 1 kHz frequency resolution (1 Hz optional) and 0.01 dB power resolution across its operating range. Technical Specifications Frequency & Resolution Range: 0.01 GHz to 20 GHz Resolution: 1 kHz standard; 1 Hz with Option 1E8 External reference: 10 MHz Output Power 0.01–1 GHz: +13 dBm typical maximum 1–20 GHz: +11 to +13 dBm typical maximum Impedance: 50 Ω Power resolution: 0.01 dB Output accuracy: ± 1.0 dB (typical); ± 2.3 dB (overall) Level switching time: <15 ms (without step attenuator change) Spectral Performance Harmonics: <–55 dBc Non-harmonic spurious: 3 kHz offset) Phase noise @ 10 kHz offset: –103 dBc/Hz (500 MHz), –91 dBc/Hz (2 GHz), –73 dBc/Hz (18 GHz) Broadband noise floor: 80 dB; rise/fall times <10 ns; minimum width 3 MHz; width 25 ns to 419 ms; delay ± 419 ms (free-run) FM rate: 1 kHz to 1 MHz; maximum deviation 10 MHz pk (2–20 GHz), 5 MHz pk (1–2 GHz) Log AM depth: >60 dB Key Features User level correction for accurate power at distant test ports Internal multimode pulse generator: triggered, doublet, and gated burst operation Sub-harmonics eliminated Broadband noise minimized for low-gain device measurements Typical Applications Radar system testing and characterization Electronic warfare signal simulation Telecommunications equipment validation Component and subsystem RF performance assessment Compatibility & Integration 50 Ω output impedance matches standard test setups 10 MHz external frequency reference input for synchronization Optional 1E5 high-stability timebase for phase noise offsets <100 Hz

Features & description

From manufacturer datasheet

Features

- A-revision 10 MHz-start signal generator (B sibling is 83732B) • 83731A is the 1 GHz-start A-revision counterpart • Pulse, AM, and FM on the signal-generator (31/32) side of the 8370 family • 1 kHz frequency resolution on standard hardware • GPIB programmable synthesized source • Confirm installed options on the faceplate; B option codes (1E1/1E5/1E8) are the later ordering scheme

83732A Characteristics / Specifications

PARAMETER	VALUE
Model	83732A
Manufacturer	Hewlett Packard / Agilent
Instrument Type	Synthesized signal generator
Family	8370A
Alias	HP 83732A; Agilent 83732A
Frequency Range	10 MHz to 20 GHz
Frequency Resolution	1 kHz
Related 1 GHz StartAModel	83731A 1.0 to 20 GHz
Related CWAModels	83711A 1 to 20 GHz; 83712A 10 MHz to 20 GHz
SuccessorBModel	83732B same span with published 5963-6615E power tableBFamily Min Leveled: -4 dBm; -110 dBm with step attenuator optionBFamily Max Leveled 0.01 to 1 GHz: +13 dBmBFamily Max Leveled 1 to 18 GHz Standard: +11 dBmBFamily Switching Any Step: less than 50 ms to within 1 kHzBFamily Harmonics Signal Generators: less than -55 dBc at levels below +6 dBmBFamily Pulse On Off: greater than 80 dBdBFamily SSB PN 10 to 20 GHz 10 kHz: -76 dBc/HzBFamily Size: 133 mmHx 426 mmWx 498 mmDBFamily Net Weight: less than
Programming Family	GPIB synthesized signal generator
RF Connector Family	TypeNclass on A/B coaxial 20 GHz units
Modulation Class	pulse, AM, and FM on 83731/83732 signal generators
CW Sibling Class	83711/83712 omit modulation hardware
Timebase Reference	10 MHz external reference input on family
User Manual Lineage	83731A/83732A user's guide (83731-90001 class)
Operating temperature	0 C to 55 CBFamily Mains VA: 260 VA maximum

General Specifications & Supplementary Characteristics

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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

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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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<https://aumictechlabs.com>

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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.