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Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 100W1000M11

Amplifier Research 100W1000M11 Solid State RF Amplifier The Amplifier Research 100W1000M11 is an M11 configuration of the 100W1000 solid-state broadband amplifier family providing 100 W CW minimum from 80 MHz to 1000 MHz. OEM W1000 family datasheets emphasize ClassA linearity, digital control, and remote IEEE-488/RS-232 operation. RF susceptibility testing, antenna and component testing, and wattmeter calibration through 1 GHz. Digital local and remote amplifier control The Amplifier Research 100W1000M11 is an M11 configuration of the 100W1000 solid-state broadband amplifier family providing 100 W CW minimum from 80 MHz to 1000 MHz. OEM W1000 family datasheets emphasize ClassA linearity, digital control, and remote IEEE-488/RS-232 operation. RF susceptibility testing, antenna and component testing, and wattmeter calibration through 1 GHz. Digital local and remote amplifier control Frequency Response: 80 to 1000 MHz instantaneously



MODEL

**Amplifier Research
100W1000M11**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

100W1000M11

LISTING

<https://aumictechlabs.com/products/100w1000m11-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amplifier Research 100W1000M11 is a solid-state RF amplifier delivering 100 W of broadband power across 1 MHz to 1 GHz. Engineered for EMC testing, wireless communications, and laboratory applications, this air-cooled unit combines high gain with low distortion and linear signal amplification. Push-pull circuitry in the high-power stages minimizes harmonic content and

ensures stability across the full frequency range.

Technical Specifications

Frequency & Power

Frequency range: 1 MHz to 1 GHz
Rated output power: 100 W minimum
Power gain: 50 dB minimum
Gain flatness: ± 2.0 dB maximum
Input for rated output: 1 mW maximum
Input/Output Impedance: 50 Ω , VSWR 2.0:1 maximum
Output impedance: 50 Ω , VSWR 2.5:1 maximum
RF connectors: Type N female

Modulation & Control

Modulation capability: AM, FM, and pulse modulation
Control panel: Digital display with menu-assigned softkeys, rotary knob, and dedicated POWER, STANDBY, OPERATE, and FAULT/RESET switches
Remote control: GPIB/IEEE-488 and RS-232 interfaces
Automatic level control (ALC): Internal or external, accessible from front panel

Key Features

- Push-pull high-power stage design for distortion minimization
- 50 dB minimum gain ensures efficient signal amplification
- Broadband 1 MHz–1 GHz coverage for diverse test frequencies
- Digital control panel with remote capability via standard interfaces
- Modulation-faithful reproduction across AM, FM, and pulse modes

Typical Applications

- Electromagnetic compatibility (EMC) testing and certification
- Wireless communications testing and development
- General-purpose RF laboratory measurements
- Signal amplification requiring linear response and low harmonic distortion

Compatibility & Integration

Type N female connectors provide standard RF connectivity. Full remote control via GPIB/IEEE-488 and RS-232 enables integration into automated test systems. Internal or external ALC accommodates both manual and closed-loop applications.

100W1000M11 Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power	100 watts minimum
Frequency Response	80 to 1000 MHz instantaneously
Gain At Maximum Setting Class	50 dB minimum class
Input For Rated Output Class	1.0 milliwatt maximum
Flatness Maximum Class	plus or minus 2.0 dB
Gain Adjustment Range Class	18 dB minimum class
Input Impedance Class	50 ohms VSWR 2.0:1 maximum
Output Impedance Class	50 ohms nominal
Mismatch Tolerance Class	Operate with reflected power limiting class
Harmonic Distortion Class	minus 20 dBc maximum near rated power
Modulation Capability Class	AM FM pulse faithful reproduction
Remote Interfaces Class	IEEE 488 and RS 232
Cooling	Forced air self contained fans
RF Connector Class	TypeNfemale
Form Factor	Portable self contained air cooled cabinet
Series Family	Amplifier Research 100W1000 80 to 1000 MHz
Configuration Code	M11
Primary Power Class	Universal AC mains class
Export Classification Class	EAR99 family class
Circuit Topology	Push pull solid state broadband stages
ALC Capability Class	Internal external ALC path class
Power Class Sibling 150W10	150 W minimum

100W1000M11 Specifications

PARAMETER	VALUE
Amplifier Research 100W1000M11 Solid State RF Amplifier	Overview
Applications	RF susceptibility testing, antenna and component testing, and wattmeter calibration through 1 GHz.
Key Features	M11 configuration of 100W1000 family
Technical Specifications	Rated Output Power: 100 watts minimum

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	
Rated power and frequency from Amplifier Research 100W1000 family OEM documentation for the M11 configuration. Confirm connector placement and mass on the M11 configuration row.	

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