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Data Sheet
August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research SC1000M1

Amplifier Research SC1000M1 RF Test System Controller The Amplifier Research SC1000M1 is an RF test system controller for multi-amplifier/multi-load setups, routing up to three signal generators, four power amplifiers, and four RF loads. OEM SC1000 documentation lists IEEE-488 and RS-232 control, cold switching during re-routing, interlock sensing, plus 12 VDC switchable and open-collector outputs, with 90 to 260 VAC primary power. Broadband EMC test system signal routing, multi-band amplifier/load selection without cable swaps, and automated RF path control. The Amplifier Research SC1000M1 is an RF test system controller for multi-amplifier/multi-load setups, routing up to three signal generators, four power amplifiers, and four RF loads. OEM SC1000 documentation lists IEEE-488 and RS-232 control, cold switching during re-routing, interlock sensing, plus 12 VDC switchable and open-collector outputs, with 90 to 260 VAC primary power. Broadband EMC test system signal routing, multi-band amplifier/load selection without cable swaps, and automated RF path control.

MODEL **Amplifier Research SC1000M1**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **SC1000M1**	LISTING **https://aumictechlabs.com/products/sc1000m1-3/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research SC1000M1 is a self-contained RF system test controller designed for broadband signal routing and amplifier management in laboratory environments. Operating from 80 MHz to 1000 MHz, this forced-air-cooled instrument delivers 1000 Watts CW output power

with 50 dB minimum gain. The SC1000M1 facilitates concurrent operation of up to three signal generators, four power amplifiers, and four RF loads, eliminating frequent cable reconfiguration across frequency-limited equipment.It integrates forward and reverse power measurement with emissions feedback capability.Technical Specifications Frequency Range: 80 MHz – 1000 MHz Output Power: 1000 Watts CW Minimum Gain: 50 dB Power Input: 90–260 VAC, 50–60 Hz DC Outputs: +12 VDC switchable (1 A), +24 VDC unswitched (500 mA) Open Collector Outputs: 4 channels at 800 mA current sinking each RF Connectors: SMA bulkhead Dimensions (W × H × D): 48.26 × 13.34 × 44.77 cm Weight: 6.8 kgKey Features Multi-amplifier and multi-load switching matrix eliminates cable management overhead System interlock sensing detects switch closures and interrupts input during signal re-routing, ensuring cold switching of amplifiers and loads Switchable +12 VDC output and open collector outputs control external devices such as antenna feed selectors Forward and reverse power measurement with integrated emissions feedback Reduces VSWR-related derating by centralizing RF signal distributionRemote Control & Integration IEEE-488 (GPIB) and RS-232 interfaces for automated test sequencing Manual front-panel control via 4-line vacuum fluorescent display Compatible with three-signal-generator and four-amplifier architecturesTypical Applications EMC testing with multi-amplifier configurations Medical device RF research requiring broadband coverage Communications system characterization across 80 MHz – 1 GHz band

SC1000M1 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	RF test system controller
Signal Generator Paths	up to 3
Power Amplifier Paths	up to 4
RF Load Paths	up to 4
Remote Interfaces	IEEE 488 and RS 232
Manual Control	Front panel supported
Display	4 line vacuum fluorescent
Primary Power	90 to 260 VAC 50 to 60 Hz
Voltage Output Switchable	plus 12 VDC 1 A
Voltage Output Unswitched	plus 24 VDC 500 mA
Open Collector Outputs	4 at 800 mA each
Interlock Function	Switch closure sensing interrupts input
Switching Mode	Cold switching during signal reroute
Form Factor	Rack/system controller
Series Family	SC1000
External Switch Drive	Supports TC1000/2000 antenna feed select class
Export Classification Class	Commercial RF controller class
Operating Temperature Class	Laboratory system ambient class
RF Path Impedance Class	50 ohms class
Status Indicators	Path and interlock status class
Weight Class	System controller weight class
Calibration	Functional path verification class
Operating temperature	Class: Laboratory system ambient class

SC1000M1 Specifications

PARAMETER	VALUE
Amplifier Research SC1000M1 RF Test System Controller	Overview
Applications	Broadband EMC test system signal routing, multi-band amplifier/load selection without cable swaps, and automated RF path control.
Key Features	Routes up to 3 generators and 4 amplifiers
Cold switching during reroute	IEEE 488 and RS 232 control
Technical Specifications	Instrument Type: RF test system controller
Notes	From Amplifier Research SC1000 / SC1000M1 RF test system controller OEM documentation.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Laboratory system ambient class
Operating Temperature	Class: Laboratory system ambient class
Operating Temperature Class	Laboratory system ambient class
RF Path Impedance Class	50 ohms class
Status Indicators	Path and interlock status class
Weight Class	System controller weight class
Calibration	Functional path verification class Notes From Amplifier Research SC1000 / SC1000M1 RF test system controller OEM documentation.

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

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Notes
From Amplifier Research SC1000 / SC1000M1 RF test system controller OEM documentation.

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
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

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