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Data Sheet

August 12, 2026

ROHDE & SCHWARZ

Rohde and Schwarz RT-ZM130 Modular Probe Amplifier, 13 GHz, Multimode

The Rohde & Schwarz RT-ZM130 is a modular probe amplifier designed for high-frequency signal acquisition up to 13 GHz. It features a multimode architecture, allowing it to be configured for various probing applications. This amplifier enhances the sensitivity of oscilloscopes, enabling the measurement of low-amplitude signals with high fidelity. Its modular design ensures adaptability and compatibility with a range of Rohde & Schwarz probing solutions.



MODEL

**Rohde & Schwarz
RT-ZM130**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

RT-ZM130

LISTING

<https://aumictechlabs.com/products/rt-zm130-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz RT-ZM130 is a modular probe amplifier delivering greater than 13 GHz bandwidth for high-frequency signal acquisition in demanding test environments. Its multimode architecture enables switching between single-ended, differential, and common-mode measurements without probe reconfiguration, powered by a dedicated high-speed ASIC. The amplifier achieves sub-35 ps rise time and 80 V/ns slew rate, ensuring precise capture of low-amplitude signals with minimal noise. Technical Specifications Bandwidth: >13 GHz (realtime) Rise Time: <35 ps Slew Rate: 80 V/ns (10:1 attenuation, probe input referenced) Propagation Delay: 5.5

ns Attenuation Settings: 10:1 or 2:1 Input Resistance: 400 k Ω (differential mode), 200 k Ω (single-ended mode) Dynamic Range: ± 2.5 V (10:1), ± 0.5 V (2:1) DC Offset Voltage: ± 16 V (all modes) Operating Voltage Window: ± 5 V plus DC offset Capacitive Load: 77 fF (multimode tip modules, differential mode) Key Features MultiMode Operation: Single probe tip switches between measurement modes without reconnection; offset compensation extends operating range to ± 16 V DC offset independent of probe amplifier dynamic range Low-Noise Amplification: Optimized for accurate measurement of small-signal components in complex waveforms Integrated High-Precision Voltmeter (R&S®ProbeMeter): Simultaneous DC measurement at 0.05% or 0.1% accuracy, independent of oscilloscope settings On-Probe Control: Micro button supports oscilloscope-configured functions including run/stop, auto set, waveform save, and trigger level automation Modular Tip Compatibility: Integrates with probe tip modules and amplifier stages across the 1.5 GHz to 16 GHz bandwidth range Typical Applications High-speed digital and mixed-signal circuit characterization Low-amplitude signal measurement in RF and microwave systems Differential and single-ended probing of integrated circuits and PCB traces DC offset compensation in wide-bandwidth transient analysis Compatibility & Integration The RT-ZM130 integrates with the Rohde & Schwarz oscilloscope ecosystem through modular probe architecture. Multimode tip modules connect to dedicated amplifier stages, maintaining signal integrity across the full 13 GHz bandwidth.

Features & description

From manufacturer datasheet

Features

- Bandwidth (DM, 10:1 and 2:1): >13.0 GHz • Rise time (10%–90%, from BW): <35 ps • Attenuation: 10:1 (± 2.5 V) / 2:1 (± 0.5 V) • Input R: 400 k Ω differential; 200 k Ω single-ended • Operating window: ± 7.0 V + ± 16 V offset (DC–100 kHz); ± 5.0 V + ± 16 V (>100 kHz) • Offset: ± 16 V all modes; non-destruct ± 30 V DC • Propagation delay: 5.5 ns (meas.); slew ~ 80 V/ns at 10:1 (meas.) • CMRR (DM): >50 dB DC–1 kHz; 40 / 35 / 25 / 20 dB higher bands (meas.) • ProbeMeter / micro button; R&S probe interface; SMP tip socket • Order: 1800.4500.02

RTZM130 Characteristics / Specifications

PARAMETER	VALUE
Model	RT-ZM130
Manufacturer	Rohde & Schwarz
Instrument Type	Modular MultiMode Probe Amplifier
Alias	RT-ZM130; R&S RT-ZM130 Electrical
Bandwidth	>13.0 GHz
Rise time	<35 ps
Attenuation	10:1 (±2.5 V) / 2:1 (±0.5 V)
Dynamic range	±2.5 V / ±0.5 V
Input R	400 kΩ (DM) / 200 kΩ (SE) Notes Specs from R&S RT-ZM modular probe documentation. Tip module may limit achievable system bandwidth.
Bandwidth (DM, 10	1 and 2:1): >13.0 GHz
Rise time (10%–90%, from BW)	<35 ps
Operating window	±7.0 V + ±16 V offset (DC–100 kHz); ±5.0 V + ±16 V (>100 kHz)
Offset	±16 V all modes; non-destruct ±30 V DC
Propagation delay	5.5 ns (meas.); slew ~80 V/ns at 10:1 (meas.)
CMRR (DM)	>50 dB DC–1 kHz; 40 / 35 / 25 / 20 dB higher bands (meas.)
Order	1800.4500.02

RTZM130 Specifications

PARAMETER	VALUE
Applications	13 GHz multimode probing for high-speed serial and microwave-edge signals on compatible R&S scopes.
Key Features	- Bandwidth (DM, 10:1 and 2:1): >13.0 GHz
Technical Specifications	Model: RT-ZM130
Electrical	Bandwidth: >13.0 GHz

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	RT-ZM130
Manufacturer	Rohde & Schwarz
Instrument Type	Modular MultiMode Probe Amplifier
Alias	RT-ZM130; R&S RT-ZM130

Electrical

Electrical

PARAMETER	VALUE
Bandwidth	>13.0 GHz
Rise time	<35 ps
Attenuation	10:1 / 2:1
Dynamic range	±2.5 V / ±0.5 V
Input R	400 kΩ (DM) / 200 kΩ (SE)

Notes

Specs from R&S RT-ZM modular probe documentation. Tip module may limit achievable system bandwidth.

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.