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Data Sheet

August 12, 2026

ROHDE & SCHWARZ

Rohde and Schwarz RT-ZM30 Modular Probe Amplifier, 3 GHz, Multimode

The Rohde & Schwarz RT-ZM30 is a modular probe amplifier with a bandwidth of 3 GHz, designed for multimode operation. It enhances the versatility of oscilloscopes by enabling precise measurements across various applications. Ideal for signal integrity analysis and high-speed data acquisition.



MODEL	CALIBRATION
Rohde & Schwarz RT-ZM30	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
RT-ZM30	https://aumictechlabs.com/products/rt-zm30-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz RT-ZM30 is a modular probe amplifier delivering 3 GHz bandwidth and sub-100 ps rise time for precision high-speed measurements. It enables single-ended, differential, and common mode operation without probe tip reconnection, making it ideal for signal integrity analysis across complex measurement scenarios. The integrated offset compensation extends the operating voltage window to ± 16 V, allowing maximum signal resolution. An onboard voltmeter provides 0.05% accuracy DC measurement independent of oscilloscope operation, while a micro button control interface streamlines instrument operation. Technical Specifications Bandwidth: >3 GHz Rise Time: <100 ps Input Resistance: 400 k Ω (differential mode), 200 k Ω (single-ended mode) Operating Voltage Window: ± 5 V plus DC offset voltage DC Offset Voltage Compensation:

±16 V in all operating modes Attenuation Settings: 10:1, 2:1 Integrated Voltmeter Accuracy: 0.05% Cable Length: 1.2 m Capacitive Load: LowKey Features Multimode Operation: Switch between single-ended, differential, and common mode without disconnecting probe tip Offset Compensation: ±16 V range compensates DC components at probe tip, extending operating voltage window and maximizing signal resolution Integrated Voltmeter: High-precision DC measurement (0.05% accuracy) runs continuously in parallel with waveform acquisition Micro Button Control: Direct oscilloscope operation including run/stop, auto set, waveform save, trigger level identification, and automated test reporting Low Capacitive Load: Minimizes measurement loading effectsTypical Applications High-speed signal integrity analysis Multi-mode probe measurements in single setup DC-coupled measurements with wide voltage range compensation Parallel DC voltage monitoring during transient captureCompatibility & Integration Supported Oscilloscopes: R&S RTE, R&S RTO1000, R&S RTO2000, R&S RTP, R&S MXO 5C Series, R&S RTO Connectivity: Rohde & Schwarz probe interface with double-socket SMP connector (7 mm coaxial). Compatible with 3.5 mm and 2.92 mm systems via optional R&S RT-ZMA40 SMA module.

Features & description

From manufacturer datasheet

Features

- Bandwidth (DM, 10:1 and 2:1): >3.0 GHz
- Rise time (10%–90%, from BW): <100 ps
- Attenuation: 10:1 (± 2.5 V dyn.) and 2:1 (± 0.5 V dyn.)
- 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 offset (>100 kHz)
- Offset compensation: ± 16 V all modes
- Non-destructive: ± 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: <0.2% error class; ± 7 V ProbeMeter range (user manual)
- Interface: R&S probe interface; SMP tip connector
- Order: 1419.3005.02

RTZM30 Characteristics / Specifications

PARAMETER	VALUE
Model	RT-ZM30
Manufacturer	Rohde & Schwarz
Instrument Type	Modular MultiMode Probe Amplifier
Alias	RT-ZM30; R&S RT-ZM30 Electrical
Bandwidth	>3.0 GHz
Rise time	<100 ps
Attenuation	10:1 (± 2.5 V dyn.) and 2:1 (± 0.5 V dyn.)
Dynamic range	± 2.5 V / ± 0.5 V
Input R	400 k Ω (DM) / 200 k Ω (SE) Notes Specs from R&S RT-Zxx / RT-ZM modular probe documentation. Tip-module BW may limit system BW; confirm tip and accessories on the unit.
Bandwidth (DM, 10	1 and 2:1): >3.0 GHz
Rise time (10%–90%, from BW)	<100 ps
Operating window	± 7.0 V + ± 16 V offset (DC–100 kHz); ± 5.0 V + ± 16 V offset (>100 kHz)
Offset compensation	± 16 V all modes
Non-destructive	± 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	<0.2% error class; ± 7 V ProbeMeter range (user manual)
Interface	R&S probe interface; SMP tip connector
Order	1419.3005.02

RTZM30 Specifications

PARAMETER	VALUE
Applications	Multi-GHz multimode probing on R&S oscilloscopes; solder-in / browser / SMA tip modules via SMP dual socket.
Key Features	- Bandwidth (DM, 10:1 and 2:1): >3.0 GHz
Technical Specifications	Model: RT-ZM30
Electrical	Bandwidth: >3.0 GHz
Notes	Specs from R&S RT-Zxx / RT-ZM modular probe documentation. Tip-module BW may limit system BW; confirm tip and accessories on the unit.

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-ZM30
Manufacturer	Rohde & Schwarz
Instrument Type	Modular MultiMode Probe Amplifier
Alias	RT-ZM30; R&S RT-ZM30

Electrical

Electrical

PARAMETER	VALUE
Bandwidth	>3.0 GHz
Rise time	<100 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-Zxx / RT-ZM modular probe documentation. Tip-module BW may limit system BW; confirm tip and accessories on the unit.

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.