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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz EB100 20MHz-1GHz Miniport Measuring Receiver

Rohde & Schwarz EB100 Miniport Receiver 20 MHz to 1000 MHz The R&S EB100 Miniport is a compact portable VHF/UHF surveillance, search, and scanner receiver covering 20 MHz to 1000 MHz. Double-conversion superhet uses 629.3 MHz first IF below 500 MHz (117.3 MHz above 500 MHz) and 10.7 MHz second IF. Modes are AM (A3) and FM (F3). IF bandwidths are 7.5 / 15 / 150 kHz. Thirty RAM memories, AFC, 40 dB attenuator, 10.7 MHz IF output, and a pitch-coded level tone support bug hunting with the HE100 active directional antenna set (20 to 1000 MHz). Power is 6 V DC internal SLA or external. The R&S EB100 Miniport is a compact portable VHF/UHF surveillance, search, and scanner receiver covering 20 MHz to 1000 MHz. Double-conversion superhet uses 629.3 MHz first IF below 500 MHz (117.3 MHz above 500 MHz) and 10.7 MHz second IF. Modes are AM (A3) and FM (F3). IF bandwidths are 7.5 / 15 / 150 kHz. Thirty RAM memories, AFC, 40 dB attenuator, 10.7 MHz IF output, and a pitch-coded level tone support bug hunting with the HE100 active directional antenna set (20 to 1000 MHz). Power is 6 V DC internal SLA or external.



MODEL

Rohde & Schwarz EB100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

EB100

LISTING

<https://aumictechlabs.com/products/eb100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz EB100 is a portable measuring receiver covering 20 MHz to 1 GHz, engineered for field signal detection, spectrum monitoring, and electromagnetic compatibility measurements. Its compact die-cast chassis, rugged construction, and broad frequency span make it suited to mobile applications including bug tracing and EMC field work. The instrument combines double-conversion superheterodyne architecture with selectable IF bandwidths, scanning capability, and onboard memory to deliver reliable signal analysis in demanding environments.

Technical Specifications

Frequency Range: 20 MHz to 1 GHz
Tuning Resolution: 1 kHz and 10 kHz steps; 1 kHz digital display
Modulation Modes: AM (A3), FM (F3)
IF Bandwidths: 7.5 kHz, 15 kHz, 150 kHz (selectable)
Receiver Architecture: Double conversion superheterodyne –
First IF: 629.3 MHz / 117.3 MHz (below 500 MHz); 117.3 MHz (above 500 MHz) – Second IF: 10.7 MHz
Image Rejection: >80 dB (below 500 MHz); >55 dB (above 500 MHz)
Attenuator: Switchable –40 dB
IF Output: 10.7 MHz
AF Output Power: 400 mW
Signal Indication: S-meter with level tone (pitch modulated by signal strength)
Memory: 30 channels with scan capability
Antenna Input: BNC connector
Power Supply: 6 VDC (rechargeable SLA battery); external mains via 220 V supply and battery charger
Current Drain: Approximately 560 mA
Battery Life: Over 4 hours (3 Ah battery at nominal consumption)
Dimensions: 188 × 71 × 212 mm
Weight: 3 kg (battery not included)

Key Features

- Automatic Frequency Control (AFC) for drift-free reception
- Adjustable squelch with TTL output
- Bandwidth and memory scanning modes
- Battery operation with external mains charging option

Typical Applications

- Electromagnetic compatibility (EMC) measurements
- Field spectrum monitoring across VHF/UHF bands
- RF threat detection and signal reconnaissance
- Mobile signal survey and analysis

Compatibility & Integration

Optional accessories include the EPZ-100 panoramic adapter, HE-100 active directional antenna (20–1000 MHz), telescopic and helical antennas, headphones, and carrying case.

Features & description

From manufacturer datasheet

Features

- Numeric keypad entry; trailing zeros auto-filled below 200 MHz • Memory-to-search via tuning knob
- BNC 50 ohm antenna • 400 mW AF output • Succeeded by EB150 / EB200 (10 kHz to 3 GHz)

Applications

- Portable VHF/UHF monitoring and scanning • Near-field bug / mini-transmitter detection • Direction finding with HE100 antenna • IF panorama with EPZ100 adapter (10.7 MHz plus/minus 100 kHz) • Field search with level-tone guidance

EB100 Characteristics / Specifications

PARAMETER	VALUE
Model	EB100
Manufacturer	Rohde & Schwarz
Instrument Type	Portable VHF/UHF monitoring receiver
Alias	EB 100; EB-100; R&S EB100 Miniport
Frequency Range	20 MHz to 1000 MHz
Tuning Steps	1 kHz and 10 kHz
Modes	AM (A3), FM (F3)
Memories	30 RAM
Supply	6 V DC rechargeable SLA or 6 V DC external
Antenna Impedance	50 ohm BNC
Dimensions	188 mm x 71 mm x 212 mm
Weight	3 kg without batteries
Attenuator	40 dB
IF Output	10.7 MHz
First IF below 500 MHz	629.3 MHz
First IF above 500 MHz	117.3 MHz
Second IF	10.7 MHz
IF Bandwidths	7.5 kHz, 15 kHz, 150 kHz
Image Rejection below 500 MHz	80 dB
Image Rejection above 500 MHz	55 dB
AF Output	400 mW
Receiver Architecture	double conversion superheterodyne
AFC	yes
Scanning	yes
Level Tone	pitch varies with signal strength

PARAMETER	VALUE
Panoramic Adapter	EPZ100, 10.7 MHz plus/minus 100 kHz
Antenna Set	HE100 active directional, 20 to 1000 MHz
Frequency Display	digital, 1 kHz
Form Factor	handheld/portable miniport
Successor	EB200 10 kHz to 3 GHz
Origin	West Germany, 1985-era Miniport family Notes Specs from R&S EB100 Miniport receiver documentation. Confirm HE100/EPZ100 accessories and battery state. This is EB100 (20 MHz to 1 GHz), not EB200 (10 kHz to 3 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	
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Notes
Specs from R&S EB100 Miniport receiver documentation. Confirm HE100/EPZ100 accessories and battery state.
This is EB100 (20 MHz to 1 GHz), not EB200 (10 kHz to 3 GHz).

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.