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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESHS10 9KHz-30MHz EMI Test Receiver

Rohde & Schwarz ESHS10 EMI Test Receiver 9 kHz to 30 MHz The R&S ESHS10 is the LCD 9 kHz to 30 MHz member of the ESHS commercial EMI receiver family. It is a double-conversion heterodyne with 10 Hz frequency resolution, 200 Hz / 10 kHz IF bandwidths, 10 dB switchable preamplifier, and five fixed preselector filters. A 7-digit LCD supports manual and automatic CISPR work. Detectors are average, peak, and quasi-peak to CISPR 16 and VDE 0876. The enhanced sibling ESHS30 adds a screen, floppy-disk drive, tracking generator, and IF analyzer. The R&S ESHS10 is the LCD 9 kHz to 30 MHz member of the ESHS commercial EMI receiver family. It is a double-conversion heterodyne with 10 Hz frequency resolution, 200 Hz / 10 kHz IF bandwidths, 10 dB switchable preamplifier, and five fixed preselector filters. A 7-digit LCD supports manual and automatic CISPR work. Detectors are average, peak, and quasi-peak to CISPR 16 and VDE 0876. The enhanced sibling ESHS30 adds a screen, floppy-disk drive, tracking generator, and IF analyzer. Commercial conducted EMI (CISPR 16, EN 55011 to 55022, FCC, VCCI, VDE)



MODEL

Rohde & Schwarz ESHS10

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ESHS10

LISTING

<https://aumictechlabs.com/products/eshs10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ESHS10 is a dedicated EMI test receiver for electromagnetic interference compliance verification across 9 kHz to 30 MHz. It delivers precise measurement capabilities essential for validating radiated and conducted emissions against regulatory standards including CISPR, FCC, and VDE. The instrument combines a tracking generator for filter characterization with selectable detector modes - peak, quasi-peak, and average - to satisfy international EMI measurement requirements in laboratory settings demanding high accuracy and repeatability.

Technical Specifications

- Frequency Range: 9 kHz to 30 MHz
- IF Bandwidth: Standard and selectable bandwidths optimized for EMI measurements
- Sensitivity: Low noise floor for detecting low-level emissions
- Preselector: Integrated filters to reject out-of-band signals
- Tracking Generator: Stable RF signal source for impedance matching and filter characterization
- Antenna Input: Standard RF connector for EMI antennas and current probes
- Generator Output: RF output connector for tracking generator signal

Key Features

- Multiple detector modes (peak, quasi-peak, average) for comprehensive EMI signal analysis
- Built-in tracking generator for passive device characterization
- Configurable frequency bands within 9 kHz to 30 MHz range
- Integrated preselector for measurement accuracy
- High sensitivity architecture for weak interference detection

Typical Applications

- Radiated and conducted emissions testing
- Regulatory compliance verification (CISPR, FCC, VDE)
- Filter and passive network frequency response analysis
- System impedance matching and characterization

Compatibility & Integration

- GPIB (IEEE-488) for remote control and automation
- RS-232 serial interface for system integration
- Analog output for signal monitoring
- AC power input for USA mains voltage

ESHS10 Characteristics / Specifications

PARAMETER	VALUE
Model	ESHS10
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver
Alias	ESHS 10; R&S ESHS10
Frequency Range	9 kHz to 30 MHz
Frequency Resolution	10 Hz
Frequency Steps	10 Hz, 10 kHz, or user step
Frequency Drift	less than $3e-6 + 30$ Hz
RF Input	N, 50 ohm
VSWR att 10 dB	less than 1.2
VSWR att 0 dB	less than 2
Preamplifier	10 dB, between preselector and 1st mixer
Preselector	5 fixed tuned filters
IF Bandwidths	200 Hz and 10 kHz
Detectors	average, peak, quasi peak
Max DC Input	7 V (1 W)
Max Sinewave Input	137 dBuV (att greater than or equal to 10 dB)
Max Pulse Voltage 10 us	700 V
Max Pulse Energy 10 us	100 mWs
Image Rejection 1st IF	greater than 90 dB, typ. 100 dB
Image Rejection 2nd IF	greater than 75 dB
IF Rejection	greater than 90 dB, typ. 100 dB
TOI without Preamp above 2 MHz	greater than 15 dBm, typ. +20 dBm
Second Order Intercept	greater than 40 dBm without preamp
Display ESHS	7 digit LCD (versus screen plus floppy on ESHS30)

PARAMETER	VALUE
Tracking Generator	not included on ESHS10 (ESHS30 extra)
IF Analyzer	not included on ESHS10 (ESHS30 extra)
Mains	100/120/220/240 V plus/minus 10 percent, 47 to 440 Hz
Internal Battery	12 V, 10 Ah, about 2.5 h
External Battery	11 V to 33 V
Remote Interface	IEC IEEE bus
External Reference	5/10 MHz BNC
Sibling ESHS	same RF, screen, floppy, tracking generator, IF analyzer
Standards	CISPR 16, VDE 0876, ANSI C63.2 Notes Specs from the R&S ESHS10/30 and ESS EMI test receiver data sheet. This file is the LCD ESHS10, not ESHS30. Confirm battery pack, antenna coder cable, and firmware.

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.

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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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<https://aumictechlabs.com>

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.