

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESCS30 9 KHz to 2.75 GHz EMI Test Receiver

Rohde & Schwarz ESCS30 EMI Test Receiver 9 kHz to 2750 MHz The R&S ESCS30 is a full-compliance EMI test receiver covering 9 kHz to 2750 MHz (order 1102.4500.30). It combines RF, IF, and time-domain analyzers in one instrument. Ten integrated preselectors, a selectable 10 dB preamplifier, and CISPR bandwidths 200 Hz, 9 kHz, 120 kHz, and 1 MHz support CISPR 16-1 and VDE 0876. Parallel peak, average, and quasi-peak detectors (RMS with ESCS-B9) feed a color VGA display. Level range is minus 38 dBμV to +137 dBμV. Optional tracking generator spans 9 kHz to 2750 MHz; optional IF spectrum analysis shows 10 kHz to 10 MHz. The R&S ESCS30 is a full-compliance EMI test receiver covering 9 kHz to 2750 MHz (order 1102.4500.30). It combines RF, IF, and time-domain analyzers in one instrument. Ten integrated preselectors, a selectable 10 dB preamplifier, and CISPR bandwidths 200 Hz, 9 kHz, 120 kHz, and 1 MHz support CISPR 16-1 and VDE 0876. Parallel peak, average, and quasi-peak detectors (RMS with ESCS-B9) feed a color VGA display. Level range is minus 38 dBμV to +137 dBμV. Optional tracking generator spans 9 kHz to 2750 MHz; optional IF spectrum analysis shows 10 kHz to 10 MHz.



MODEL

Rohde & Schwarz ESCS30

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ESCS30

LISTING

<https://aumictechlabs.com/products/escs30-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz ESCS30 is a precision EMI test receiver covering 9 kHz to 2.75 GHz for conducted and radiated emissions testing. It operates as a manual tunable receiver, automatic test system, and IEC/IEEE-bus compatible instrument, serving pre-compliance and full compliance measurement roles across automotive, aerospace, and consumer electronics industries.

Technical Specifications

Frequency Range: 9 kHz to 2.75 GHz

Measurement Uncertainty: Typically < 0.5 dB; maximum 1 dB

Level Measurement Range: -38 dBμV to +137 dBμV

Noise Figure (9 kHz to 30 MHz, 200 Hz BW): < -25 dBμV without preamplifier; < -34 dBμV with preamplifier enabled

Noise Figure (30 MHz to 1000 MHz, 120 kHz BW): < +1 dBμV without preamplifier; < -4 dBμV with preamplifier

Noise Figure (1000 MHz to 2750 MHz, 120 kHz BW): < +5 dBμV without preamplifier; < 0 dBμV with preamplifier

RF Attenuator: 0 to 60 dB in 5 dB steps

Preamplifier: Selectable 10 dB gain

Input Impedance: 50 Ω

VSWR (f < 1000 MHz): 10 dB RF attenuation

Maximum Input Level (RF Attenuation > 10 dB): DC 7 V; AC sinewave 137 dBμV (1 W); other 150 V maximum, 10 mWs maximum

Resolution Bandwidth: 10 Hz to 1 MHz

CISPR Bandwidths: 200 Hz, 9 kHz, 120 kHz, 1 MHz

Detectors: Peak, Average, Quasi-peak, RMS-average, CISPR-average

outputs

Frequency Setting Resolution: 10 Hz to 1000 MHz; 100 Hz above 1000 MHz

Frequency Drift: < 1×10^{-6} after 30 min warmup

Key Features

Ten integrated preselectors: 2 fixed-tuned and 6 tracking filters (9 kHz–1000 MHz); 2 tracking filters (1000–2750 MHz)

Automated frequency scanning up to 400 preset frequencies

Multiple test modes: Manual, Auto, Full-auto, Quasi-peak, CISPR-average, RMS-average

Measurement functions include EMI, EMI scan, EMI pre-scan, EMI sweep, EMI sequence

Compliance & Standards

CISPR 16-1, VDE 0876, CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, VDE

Integration IEC/IEEE-bus interface for system integration and remote control

Features & description

From manufacturer datasheet

Features

- Direct CISPR band selection with matching bandwidth, step, and dwell
- Automatic scan of ranges and lists up to 400 frequencies
- Nonvolatile setups including limit lines and correction factors
- Options B4 RF spectrum analyzer, B5 tracking generator, B6 oven, B9 RMS
- Max Hold prescan plus data-reduction routines

Applications

- Full-compliance commercial EMI to CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, VDE
- Precertification optimization during development
- RFI voltage, power, and field-strength measurements
- Time-domain analysis of intermittent interference (5 ms to 1 h)
- Tracking-generator scalar measurements (option)

ESCS30 Characteristics / Specifications

PARAMETER	VALUE
Model	ESCS30
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver
Alias	ESCS 30; R&S ESCS30
Order Number	1102.4500.30
Frequency Range	9 kHz to 2750 MHz
Frequency Resolution	10 Hz and 100 Hz (8-digit display)
CISPR Bandwidths	200 Hz, 9 kHz, 120 kHz, 1 MHz
CISPR Band A	9 kHz to 150 kHz, IF 200 Hz, AV time constant 160 ms
CISPR Band B	150 kHz to 30 MHz, IF 9 kHz, AV time constant 160 ms
CISPR BandCD	30 MHz to 1000 MHz, IF 120 kHz, AV time constant 100 ms
Detectors	peak, average, quasi-peak; RMS with ESCS-B9
Preamplifier	selectable 10 dB
Preselectors	ten integrated
Level Range	minus 38 dB μ V to +137 dB μ V
Measurement Time	1 ms to 100 s in 1/2/5 steps
Time Domain Display	5 ms to 1 h (also stated to 2 h)
Time Domain Memory	up to 30000 measured values, zoomable
Scan List	up to 400 frequencies
Tracking Generator Option	9 kHz to 2750 MHz (ESCS-B5)
IF Spectrum Option	1, 3, or 10 kHz resolution; 10 kHz to 10 MHz display
OCXO Option	ESCS-B6
RMS Detector Option	ESCS-B9
RF Spectrum Option	ESCS-B4
Display	LC color, VGA

PARAMETER	VALUE
Overload Detection	automatic
Standards	CISPR 16-1, VDE 0876, EN, ETS, FCC, ANSI C63.4, VCCI
Form Factor	benchtop compliance receiver
Average Detector	CISPR 16-1 linear average, 2nd-order lowpass Notes Specs from the R&S ESCS30 operating manual and product literature. Confirm B4/B5/B6/B9 options. This is ESCS30 (9 kHz to 2.75 GHz), not later ESPI/ESL/ESU receivers.

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	ESCS30
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver
Alias	ESCS 30; R&S ESCS30
Order Number	1102.4500.30
Frequency Range	9 kHz to 2750 MHz
Frequency Resolution	10 Hz and 100 Hz (8-digit display)
CISPR Bandwidths	200 Hz, 9 kHz, 120 kHz, 1 MHz
CISPR Band A	9 kHz to 150 kHz, IF 200 Hz, AV time constant 160 ms
CISPR Band B	150 kHz to 30 MHz, IF 9 kHz, AV time constant 160 ms
CISPR BandCD	30 MHz to 1000 MHz, IF 120 kHz, AV time constant 100 ms
Detectors	peak, average, quasi-peak; RMS with ESCS-B9
Preamplifier	selectable 10 dB
Preselectors	ten integrated
Level Range	minus 38 dBµV to +137 dBµV
Measurement Time	1 ms to 100 s in 1/2/5 steps
Time Domain Display	5 ms to 1 h (also stated to 2 h)
Time Domain Memory	up to 30000 measured values, zoomable
Scan List	up to 400 frequencies
Tracking Generator Option	9 kHz to 2750 MHz (ESCS-B5)
IF Spectrum Option	1, 3, or 10 kHz resolution; 10 kHz to 10 MHz display
OCXO Option	ESCS-B6
RMS Detector Option	ESCS-B9
RF Spectrum Option	ESCS-B4
Display	LC color, VGA
Overload Detection	automatic

PARAMETER	VALUE
Standards	CISPR 16-1, VDE 0876, EN, ETS, FCC, ANSI C63.4, VCCI
Form Factor	benchtop compliance receiver
Average Detector	CISPR 16-1 linear average, 2nd-order lowpass

Notes
Specs from the R&S ESCS30 operating manual and product literature. Confirm B4/B5/B6/B9 options. This is ESCS30 (9 kHz to 2.75 GHz), not later ESPI/ESL/ESU receivers.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.