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Data Sheet
August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESPC 150KHz-1GHz EMI Test Receiver

Rohde & Schwarz ESPC EMI Precertification Test Receiver 150 kHz to 1000 MHz The R&S ESPC is an EMI precertification test receiver derived from Rohde & Schwarz full-compliance models. Base range is 150 kHz to 1000 MHz; options extend coverage to 9 kHz and 2500 MHz (see ESPC10). It isacompact, economical solution for development-accompanying EMI diagnostics, pre- and post-qualification, and production tests before CE acceptance testing. Built-in preselection supports CISPR 16-1 weighting of pulses down to 10 Hz PRF. Parallel peak, average, and quasi-peak detectors andafast 10 Hz / 100 Hz synthesizer speed precompliance scans. The R&S ESPC is an EMI precertification test receiver derived from Rohde & Schwarz full-compliance models. Base range is 150 kHz to 1000 MHz; options extend coverage to 9 kHz and 2500 MHz (see ESPC10). It isacompact, economical solution for development-accompanying EMI diagnostics, pre- and post-qualification, and production tests before CE acceptance testing. Built-in preselection supports CISPR 16-1 weighting of pulses down to 10 Hz PRF. Parallel peak, average, and quasi-peak detectors andafast 10 Hz / 100 Hz synthesizer speed precompliance scans.

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

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ESPC is a dedicated EMI test receiver for EMC compliance measurement across 150 kHz to 1 GHz. It delivers parallel detection of Average, Peak, and Quasi-Peak signals with correct CISPR 16-1 interference weighting down to 10 Hz pulse repetition frequency. The instrument combines fast frequency synthesis, multiple IF bandwidths (200 Hz, 9 kHz, 120 kHz, 1 MHz), and 80 dB dynamic range to characterize emissions in voltage, field strength, current, and pulse spectral density formats.Technical Specifications Frequency Range: 150 kHz to 1000 MHz (optionally extendable to 2500 MHz; optional lower limit 9 kHz with ESPC-B2) Frequency Resolution: 10 Hz and 100 Hz Frequency Error: $<3 \times 10^{-6}$ after 30 min warmup RF Attenuator: 0 to 70 dB in 10 dB steps IF Bandwidths: 200 Hz, 9 kHz, 120 kHz, 1 MHz with EMC preselection filters Image & IF Rejection: 70 dB (1st and 2nd IF) Dynamic Range: 80 dB typical Measurement Time: 1 ms to 100 s (1/2/5 steps) Display: 8-digit LCD with backlighting; 3-digit level display (0.1 dB resolution) in dBµV, dBµA, dBm, dBµV/m, dBµA/m, dBpWKey Features Parallel Average, Peak, and Quasi-Peak detectors with simultaneous dual-detector switching PRF measurement capability as low as 10 Hz with correct CISPR 16-1 weighting Fast synthesizer with 10 Hz frequency resolution Automated frequency scanning up to 400 measurement points Fast PreScan function for rapid spectral range identification Automatic level calibration and limit-line comparison against standard or user-defined thresholds Built-in macro functions for semi-automatic test routines Windows-based EMI test software includedTypical Applications CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, and VDE standards compliance verification Radiated and conducted emission measurement Interference characterization in industrial, consumer, and communications equipmentCompatibility & Integration USB, LAN, and optional GPIB interfaces for remote operation and data integration

Features & description

From manufacturer datasheet

Features

• Parallel peak, average, and quasi-peak detectors • Fast synthesizer with 10 Hz and 100 Hz resolution • Automatic overload detection and automatic level calibration • Built-in macros plus Windows EMI test software as standard • Frequency-dependent transducer factors applied automatically

Applications

• Precompliance EMI to CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, VDE • Development diagnostic scans before full-compliance lab time • Production go/no-go emission tests • Voltage, field-strength, current, and pulse spectral density measurements • Battery-powered on-site surveys (internal or external battery)

ESPC Characteristics / Specifications

PARAMETER	VALUE
Model	ESPC
Manufacturer	Rohde & Schwarz
Instrument Type	EMI precertification test receiver
Alias	ESPC; R&S ESPC
Frequency Range Base	150 kHz to 1000 MHz
Frequency Resolution	10 Hz and 100 Hz
Detectors	peak, average, quasi-peak in parallel
CISPR Weighting PRF	down to 10 Hz per CISPR 16-1
Preselection	integrated
Standards	CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, VDE
Overload Detection	automatic
Level Calibration	automatic
Measurands	voltage, field strength, current, pulse spectral density
Transducer Factors	automatic frequency-dependent correction
Macros	built-in automatic and semi-automatic routines
Software	EMI test software under Windows supplied as standard
Power Source	internal or external battery plus mains
Remote Role	compact precompliance receiver for CE risk reduction
Sibling ESPC10 Range	9 kHz to 2500 MHz (1082.8007.10 class)
Family Identity	ESPC derived from R&S full-compliance EMI receivers
Display Units	relevant EMI units for voltage/field/current/PSD
Intended Use	diagnostic, prequalification, postqualification, production
Form Factor	compact benchtop EMI receiver
Pulse Weighting	CISPR 16-1 compliant with preselection
Synthesizer	fast, 10 Hz / 100 Hz steps

PARAMETER	VALUE
Minimum Frequency Base	150 kHz
Maximum Frequency Base	1000 MHz

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	ESPC
Manufacturer	Rohde & Schwarz
Instrument Type	EMI precertification test receiver
Alias	ESPC; R&S ESPC
Frequency Range Base	150 kHz to 1000 MHz

Optional Lower Limit: 9 kHz
Optional Upper Limit: 2500 MHz

Specifications

PARAMETER	VALUE
Frequency Resolution	10 Hz and 100 Hz
Detectors	peak, average, quasi-peak in parallel
CISPR Weighting PRF	down to 10 Hz per CISPR 16-1
Preselection	integrated
Standards	CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, VDE
Overload Detection	automatic
Level Calibration	automatic
Measurands	voltage, field strength, current, pulse spectral density
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Intended Use	diagnostic, prequalification, postqualification, production

PARAMETER	VALUE
Form Factor	compact benchtop EMI receiver
Pulse Weighting	CISPR 16-1 compliant with preselection
Synthesizer	fast, 10 Hz / 100 Hz steps
Minimum Frequency Base	150 kHz
Maximum Frequency Base	1000 MHz

Notes
Specs from R&S ESPC EMI Precertification Test Receiver literature. This file is the base 150 kHz to 1000 MHz ESPC. Confirm 9 kHz and/or 2500 MHz extensions; the extended SKU is documented as ESPC10 (1082.8007.10).

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

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