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Data Sheet
August 13, 2026

ROHDE & SCHWARZ

Rohde and Schwarz ESPC10 EMI Test Receiver, 9 kHz to 1 GHz

Rohde & Schwarz ESPC10 EMI Precertification Test Receiver 9 kHz to 2500 MHz The R&S ESPC10 is the extended-range member of the ESPC EMI precertification test receiver family (order class 1082.8007.10). Base ESPC covers 150 kHz to 1000 MHz; ESPC10 extends the lower limit to 9 kHz and the upper limit to 2500 MHz. Derived from R&S full-compliance receivers, ESPC providesacompact, economical platform for development-accompanying EMI diagnostics, pre- and post-qualification, and production tests ahead of CE acceptance. Built-in preselection supports CISPR 16-1 weighting of pulses down to 10 Hz PRF. The R&S ESPC10 is the extended-range member of the ESPC EMI precertification test receiver family (order class 1082.8007.10). Base ESPC covers 150 kHz to 1000 MHz; ESPC10 extends the lower limit to 9 kHz and the upper limit to 2500 MHz. Derived from R&S full-compliance receivers, ESPC providesacompact, economical platform for development-accompanying EMI diagnostics, pre- and post-qualification, and production tests ahead of CE acceptance. Built-in preselection supports CISPR 16-1 weighting of pulses down to 10 Hz PRF.

MODEL Rohde & Schwarz ESPC10	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU ESPC10	LISTING https://aumictechlabs.com/products/espc10-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ESPC10 is an EMC precertification test receiver designed for emission testing throughout product development and production stages. Built on full-compliance receiver architecture, it delivers precompliance EMI measurement capabilities that reduce risk and accelerate time-to-market before full compliance testing and CE marking. The instrument supports all major commercial EMI standards including CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, and VDE.Technical Specifications Frequency Coverage Standard: 150 kHz to 1000 MHz Optional (ESPC-B2 module): 9 kHz to 1000 MHz Optional (retrofit to 2500 MHz): 1000 MHz to 2500 MHz Synthesizer & Stability Frequency resolution: 10 Hz and 100 Hz modes Frequency error: < 3×10^{-6} after 30 minutes warm-up Detection & Measurement Parallel detector channels: Average, Peak, and Quasi-Peak CISPR 16-1 compliant interference weighting down to 10 Hz pulse repetition frequency Automatic CISPR bandwidth selection across test frequency range Bandwidth complement: 2 fixed-tuned and 6 tracking filters (9 kHz–1000 MHz); 2 tracking filters (1000–2500 MHz) Measures voltage, field strength, current, and pulse spectral density with automatic transducer factor correction RF Performance Integrated preselection for accurate narrowband measurements Attenuator: 0 to 70 dB in 10 dB steps Image frequency rejection: 70 dB (1st and 2nd IF) IF rejection: 70 dB Automatic overload detection across entire signal path (input and IF stages) User Interface & Automation 8-digit LCD with switchable backlighting Windows-based EMI test software supplied standard Firmware macros for automatic and semi-automatic test routines FAST PRESCAN function for critical spectrum identification Automatic level calibration Limit-line comparison macros (EN standards and equivalent)Key Features Portable architecture supporting internal or external battery operation MIL-STD-810D shock qualification (40 g spectrum) MIL-T-28800D vibration qualification (Class 5) Operating range: −10 °C to 55 °C (no condensation); rated 5 °C to 45 °CTypical Applications Precompliance EMI testing across consumer, industrial, medical, and telecommunications product development workflows.Compatibility & Integration Supports CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, and VDE standard protocols.

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)

ESPC10 Characteristics / Specifications

PARAMETER	VALUE
Model	ESPC10
Manufacturer	Rohde & Schwarz
Instrument Type	EMI precertification test receiver
Alias	ESPC 10; R&S ESPC10; ESPC-1082.8007.10
Order Number Class	1082.8007.10
Frequency Range ESPC	9 kHz to 2500 MHz
Frequency Range Base ESPC	150 kHz to 1000 MHz
Lower Extension	9 kHz (ESPC10 / ESPC-B2 class)
Upper Extension	2500 MHz (ESPC10 class)
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 ESPC Range	150 kHz to 1000 MHz without 9 kHz/2.5 GHz extensions
Family Identity	ESPC derived from R&S full-compliance EMI receivers
Display Units	relevant EMI units for voltage/field/current/PSD

PARAMETER	VALUE
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 Notes Specs from R&S ESPC EMI Precertification Test Receiver literature and the 1082.8007.10 9 kHz to 2500 MHz configuration. Confirm installed frequency-extension hardware versusabase 150 kHz to 1000 MHz ESPC. This file is ESPC10, not the unextended ESPC.

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	ESPC10
Manufacturer	Rohde & Schwarz
Instrument Type	EMI precertification test receiver
Alias	ESPC 10; R&S ESPC10; ESPC-1082.8007.10
Order Number Class	1082.8007.10
Frequency Range ESPC10	9 kHz to 2500 MHz
Frequency Range Base ESPC	150 kHz to 1000 MHz
Lower Extension	9 kHz (ESPC10 / ESPC-B2 class)
Upper Extension	2500 MHz (ESPC10 class)
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
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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

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