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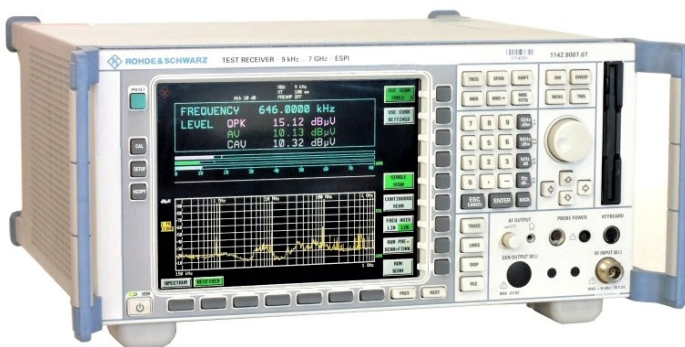
Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESPI7 9KHz-7GHz EMI EMC Precompliance Test Receiver

Rohde & Schwarz ESPI7 EMI Test Receiver 9 kHz to 7 GHz The R&S ESPI7 is the 7 GHz precompliance EMI test receiver / spectrum analyzer in the ESPI family (ESPI3: 9 kHz to 3 GHz; ESPI7: 9 kHz to 7 GHz). Frequency resolution is 0.01 Hz. Optional ESPI-B2 adds 11 tracking preselection filters and preamplifier. CISPR bandwidths 200 Hz, 9 kHz, 120 kHz, and 1 MHz plus quasi-peak, CISPR-average, and CISPR-RMS detectors (max 3 in parallel) support commercial EMI diagnostics. A 21 cm TFT, up to 10 scan subranges, and FSP-B4 OCXO option complete the FSP-based platform. The R&S ESPI7 is the 7 GHz precompliance EMI test receiver / spectrum analyzer in the ESPI family (ESPI3: 9 kHz to 3 GHz; ESPI7: 9 kHz to 7 GHz). Frequency resolution is 0.01 Hz. Optional ESPI-B2 adds 11 tracking preselection filters and preamplifier. CISPR bandwidths 200 Hz, 9 kHz, 120 kHz, and 1 MHz plus quasi-peak, CISPR-average, and CISPR-RMS detectors (max 3 in parallel) support commercial EMI diagnostics. A 21 cm TFT, up to 10 scan subranges, and FSP-B4 OCXO option complete the FSP-based platform.



MODEL

Rohde & Schwarz ESPI7

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ESPI7

LISTING

<https://aumictechlabs.com/products/espi7-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ESPI7 is a compact EMI test receiver engineered for precompliance testing of electromagnetic compatibility across 9 kHz to 7 GHz. It delivers real-time spectrum analysis, automated test routines, and detailed reporting - enabling product developers to identify and resolve EMC issues early in the development cycle and minimize the risk of costly redesigns before formal compliance verification.

Technical Specifications Frequency coverage spans 9 kHz to 7 GHz, supporting broadband EMI precompliance measurements across consumer, industrial, and RF device applications. The instrument integrates real-time spectrum analysis with automated test sequences and comprehensive reporting functionality.

Key Features High sensitivity for detection of low-level electromagnetic emissions Real-time spectrum analysis with immediate visualization of the electromagnetic spectrum for transient signal identification Automated test sequences enabling efficient and repeatable testing according to various standards Detailed reporting to document results and support troubleshooting User-friendly interface for streamlined test setup and execution

Typical Applications The ESPI7 serves product development teams conducting precompliance EMI testing on electronic devices prior to formal EMC certification. Early identification of emission issues reduces design iteration cycles and accelerates time-to-compliance.

Compatibility & Integration The instrument operates as a standalone precompliance test platform with integrated measurement, analysis, and reporting capabilities.

Features & description

From manufacturer datasheet

Features

• EMI 6 dB bandwidths 200 Hz, 9 kHz, 120 kHz, 1 MHz (pulse) • Analyzer RBW 10 Hz to 3 MHz (1/3/10); FFT 1 Hz to 30 kHz • Optional ESPI-B2 preselection and preamp • Up to 8001 measurement points; 125 to 8001 class • LAN / GPIB / 100 to 240 V, typ. 120 VA, 11.3 kg

Applications

• Precompliance EMI to CISPR / EN / FCC to 7 GHz • Spectrum analysis in the development lab • Preview peak plus final QP / CISPR-average • Conducted and radiated disturbance diagnostics • Production EMI spot checks

ESPI7 Characteristics / Specifications

PARAMETER	VALUE
Model	ESPI7
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver / spectrum analyzer
Alias	ESPI 7; R&S ESPI7
Frequency Range	9 kHz to 7 GHz
Frequency Resolution	0.01 Hz
Reference Aging Standard	1e-6 per year (after 30 days)
Reference Temperature Drift	1e-6 (+5 C to +45 C)
OCXO FSP B4 Aging	1e-7 per year
OCXO Temperature Drift	1e-8 (+5 C to +45 C)
External Reference	10 MHz
Receiver Display Resolution	0.1 Hz
EMI Bandwidths 6 dB	200 Hz, 9 kHz, 120 kHz, 1 MHz
Analyzer RBW	10 Hz to 3 MHz, 1/3/10 steps
FFT Filters	1 Hz to 30 kHz, 1/3/10 steps
Video Bandwidths	1 Hz to 10 MHz, 1/3/10 steps
Detectors	AV, RMS, max peak, min peak, QPK, CISPR AV, CISPR RMS (max 3)
SSB Phase Noise 500 MHz 10 kHz	less than minus 106 dBc (1 Hz), typ. minus 113 dBc
DANL 10 MHz to 1 GHz no preselection	less than minus 140 dBm, typ. minus 145 dBm (10 Hz RBW)
DANL with preselection and preamp	less than minus 150 dBm, typ. minus 153 dBm (10 MHz to 1 GHz)
TOI 200 MHz to 3 GHz	greater than 7 dBm, typ. 10 dBm
Image Rejection	greater than 70 dB
IF Rejection	greater than 70 dB
RF Input	N female, 50 ohm
Maximum Input	30 dBm (RF att greater than or equal to 10 dB)

PARAMETER	VALUE
Attenuator	0 dB to 70 dB in 10 dB steps
Noise Floor Receiver 10 to 30 MHz BW 9 kHz	less than minus 4 dB μ V
Noise Floor Receiver 30 MHz to 1 GHz BW 120 kHz	less than 8 dB μ V
Noise Floor Receiver 1 to 7 GHz BW 1 MHz	less than 18 dB μ V
Preamp On 10 to 30 MHz BW 9 kHz	less than minus 14 dB μ V
Measurement Points	125 to 8001
Display	21 cm TFT, 640 × 480
Mains	100 to 240 V AC, 50 to 400 Hz, 120 VA typical
Dimensions	412 mm x 197 mm x 417 mm
Weight	11.3 kg
Operating Temperature	+5 C to +40 C
Sibling ESPI3 Range	9 kHz to 3 GHz
Preselection Option	ESPI-B2, 11 tracking filters

General Specifications & Supplementary Characteristics

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Preselection Option	ESPI-B2, 11 tracking filters Notes Specs from the R&S ESPI data sheet. Confirm ESPI-B2 preselection/preamp and FSP-B4 OCXO. This file is the 7 GHz ESPI7, not ESPI3.

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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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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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.