

ROHDE & SCHWARZ

EFA

The Rohde & Schwarz EFA is a high-precision TV Test Receiver and Demodulator designed for analysis, monitoring, and measurements of analog and digital television signals, including DVB-T, DVB-C, ATSC, and analog television standards.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2), RS-232 (9-pin D-Sub), Centronics (parallel printer port), External Keyboard (PS/2)
Display	6.4" color TFT LCD (640 × 480 VGA resolution)

Physical

Power Supply	100 V to 240 V AC, 47 Hz to 63 Hz, power consumption approx. 120 VA
Operating Temperature	+5 °C to +45 °C °C
Dimensions (W×H×D)	435 mm × 177 mm × 460 mm mm
Weight	approx. 12 kg to 16 kg (model dependent) kg
Form Factor	19-inch rackmount compatible, 4 HU

RF Input

Frequency Range	4.5 MHz to 1000 MHz
RF Input Impedance	75 Ω (BNC female) or 50 Ω (N-type female) (model and option dependent)
Input Level Range (Analog TV)	30 dBμV to 100 dBμV
Input Level Range (Digital TV)	35 dBμV to 100 dBμV
Maximum RF Input Level	120 dBμV
RF Attenuator Range	0 dB to 60 dB (in 10 dB steps)

Demodulation & Signal Quality

Supported Standards	Analog TV (B/G, D/K, I, M/N, L), DVB-T, DVB-C, ATSC / 8VSB (model dependent)
Demodulator Channel Bandwidth	6 MHz / 7 MHz / 8 MHz (standard dependent)

Intermediate Frequency

IF Frequency	38.9 MHz (analog TV standard) / 36 MHz / 44 MHz (configuration dependent)
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Environmental

Storage Temperature Range	-40 °C to +70 °C
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Frequency

Tuning Resolution	1 kHz
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Inputs & Outputs

External Reference Input	10 MHz (BNC female)
Video Output Connector	BNC female, 75 Ω
Audio Output Connectors	3-pin XLR (balanced, Sound 1 and Sound 2)
IF Output Connector	BNC female, 75 Ω

Video Output

Video Output Level	1 Vpp
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Audio Output

Audio Output Level	+6 dBm (into 600 Ω)
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Power

Power Consumption	70 VA to 110 VA (configuration dependent)
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Reference Frequency

External Reference Input Frequency	10 MHz
External Reference Input Level	0.1 V to 5 V (rms)
Reference Output Frequency	10 MHz

RF Input Performance

RF Input Return Loss	≥ 30 dB (48 MHz to 300 MHz, RF attenuation ≥ 10 dB), ≥ 26 dB (300 MHz to 860 MHz, RF attenuation ≥ 10 dB)
Image Rejection	> 70 dB (typical)
IF Rejection	> 80 dB (typical)

Remote Control

Command Set	SCPI
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Compliance & Safety

Electromagnetic Compatibility (EMC)	Complies with EN 50081-1, EN 50082-2, EN 55011 Class B
Electrical Safety	Complies with EN 61010-1

TECHNOLOGY

TV Demodulation & Broadcast Test Receiver

APPLICATIONS

Broadcast monitoring, transmitter testing, and signal analysis

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.