

ROHDE & SCHWARZ

FSEA20

The Rohde & Schwarz FSEA20 is a high-performance spectrum analyzer from the FSE Series, engineered for both general-purpose RF testing and the rigorous demands of analyzing digitally modulated signals. Covering a frequency range from 9 kHz to 3.5 GHz, it offers extremely high sweep speeds down to 1 μ s, tight resolution bandwidths down to 10 Hz (expandable to 1 Hz with options), and a modular architecture that ensures future-proof adaptability in laboratory and manufacturing environments.

SPECIFICATIONS

Frequency Specifications

Frequency Range	9 kHz to 3.5 GHz
Frequency Span Range	0 Hz (zero span), 10 Hz to 3.5 GHz
Spectral Purity / Phase Noise	<-113 dBc/Hz at 10 kHz offset (1 GHz carrier)

Bandwidth (RBW/VBW) Specifications

Resolution Bandwidth (RBW) Range	10 Hz to 10 MHz
Resolution Bandwidth (RBW) Steps	1, 2, 3, 5
Video Bandwidth (VBW) Range	1 Hz to 10 MHz
VBW Filter Steps	1, 2, 3, 5
FFT Filter Bandwidths	1 Hz to 10 Hz (with Option FSE-B7)

Amplitude Specifications

Amplitude Measurement Range	DANL to +30 dBm
Input Attenuator Range	0 dB to 70 dB
Input Attenuator Steps	10 dB

Inputs and Outputs

RF Input Connector Type	N female
RF Input Impedance	50 Ω
External Reference Input Frequency	10 MHz
IF Output Frequency	21.4 MHz

Measurement Functions & Software

Demodulation Capabilities	AM and FM
Trace Detectors	Max Peak, Min Peak, Auto Peak, Sample, RMS, Average
Adjacent Channel Power (ACP) Measurement	Supported
Occupied Bandwidth (OBW) Measurement	Supported

Display and User Interface

Disk Drive	3.5 inch, 1.44 MB floppy disk
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Inputs & Outputs

Noise Source Drive Output	28 V DC, BNC female (rear panel)
Probe Power Output	+15 V DC, -12.6 V DC, max. 150 mA

Interfaces

GPIO Interface Protocol	SCPI / IEEE 488.2
External Monitor Port	15-pin D-Sub (VGA)
External Keyboard Connector	5-pin DIN (rear panel)

Connectivity

Serial Interface Port	RS-232 (9-pin D-Sub)
User Port Interface	25-pin D-Sub (for external switch and control signals)

Options

Vector Signal Analysis Option	FSE-B7 (adds 1.6 MHz bandwidth I/Q demodulator)
Tracking Generator 3.5 GHz Option	FSE-B8
Tracking Generator with I/Q Modulator Option	FSE-B9 (9 kHz to 3.5 GHz)

TECHNOLOGY

Superheterodyne Spectrum Analysis

APPLICATIONS

RF & Microwave Testing, Digital Communications, Spectrum 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.