ROHDE & SCHWARZ

FSL6

The Rohde & Schwarz FSL6 is a compact, lightweight portable spectrum analyzer covering a frequency range of 9 kHz to 6 GHz. It offers best-in-class RF performance with standard features such as a 20 MHz I/Q demodulation bandwidth, electronic RF switching, and comprehensive detection and measurement functions. Available in specific variants (such as Model .16) with an integrated tracking generator, the FSL6 can be further expanded with firmware and internal battery options for field operations and advanced TX measurements on WLAN and Bluetooth transmitters.

SPECIFICATIONS

Physical

Operating Temperature	0 to 50 °C
Dimensions (W×H×D)	342.3 × 158.1 × 367.0 mm
Weight	7 kg (without battery) kg

Frequency Specifications

Frequency Range	9 kHz - 6 GHz

Amplitude and Level Specifications

Trace Detectors	Max, Min, Auto-Peak, Sample, RMS, Average, Quasi-Peak

Measurement Functions

Measurement Functions	Channel Power (CP), Adjacent Channel Power (ACP), Fast ACP

Tracking Generator (Optional)

Tracking Generator Frequency Range	1 MHz - 6 GHz (Model .16)
Output Level Range	-20 dBm to 0 dBm (Model .16)

I/Q Data and Demodulation (Optional)

I/Q Analysis Bandwidth	28 MHz
Supported Technologies (WLAN)	TX measurements on 802.11a/b/g/j (WLAN option)
Supported Technologies (Bluetooth)	Bluetooth transmitters including EDR (Firmware option)

Inputs and Outputs

RF Input Connector	N female
RF Input Impedance	50 Ω

Power Specifications

Battery Type (Optional)	Internal battery pack

Bandwidth

Resolution Bandwidth (RBW)	300 Hz to 10 MHz (10 Hz to 10 MHz with option FSL-B7)
Video Bandwidth (VBW)	10 Hz to 10 MHz

Performance

Phase Noise (500 MHz, 10 kHz offset)	< -98 dBc/Hz (typical)

Frequency

Reference Frequency Aging	1 × 10^-6/year (1 × 10^-7/year with option FSL-B4 OCXO)

Inputs & Outputs

Maximum Safe DC Voltage	50 V
Maximum Safe CW Power	+30 dBm (1 W)
Input Attenuator Range	0 dB to 50 dB (5 dB steps)

TECHNOLOGY

Spectrum Analysis

APPLICATIONS

RF / Wireless Test