

# R&S®FSL Spectrum Analyzer

## Signal analysis functions in a lightweight, compact package



### The perfect choice for

Research, education

Portable measurements in the field

Fast and easy to integrate in automated tests

Wireless & mobile communications standard signal analysis \*)

### Key specifications

Frequency	9 kHz to 3/6/18 GHz
DANL at 1 GHz	typ. -160 dBm (preamp ON)
Spurious response	< -60 dBc
Analysis bandwidth	28 MHz
Phase noise at 1 GHz (100 kHz offset)	typ. -105 dBc (1 Hz)
Total level accuracy	< 0.8 dB
TOI at 1 GHz	typ. +18 dBm (R&S®FSL3/FSL6) typ. +13 dBm (R&S®FSL18)
Weight	< 8 kg

### A wide range of analysis functions

The R&S®FSL is an extremely lightweight and compact spectrum analyzer. Its low weight and optional battery/DC power make it the ideal instrument for the lab and in the field.

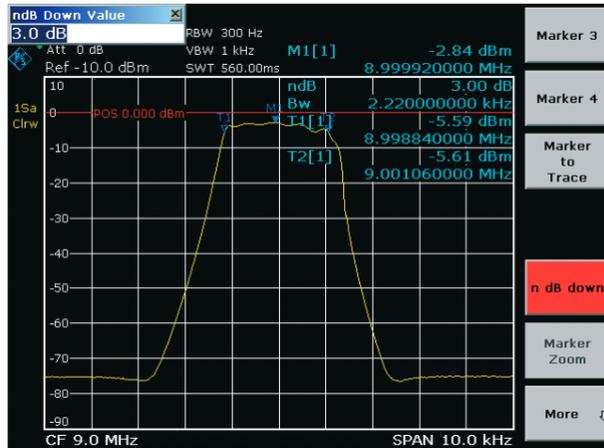
The R&S®FSL features many measurement options for analyzing signals in line with common standards. With an optional tracking generator, scalar network analysis up to 18 GHz is possible.

Your benefit	Features
One instrument for multiple tasks	Spectrum analysis Power meter Analog and digital signal analysis Scalar network analysis
Can take it with you everywhere	Carrying handle and low weight Optional battery pack Optional 12/24 V DC power supply
Signal analysis functions	Many measurement options for analyzing signals in line with IEEE (WLAN, WiMAX™ and Bluetooth®) and 3GPP standards *

\* Please see product data sheet for supported standards

► For more information, see [www.rohde-schwarz.com/product/FSL](http://www.rohde-schwarz.com/product/FSL)

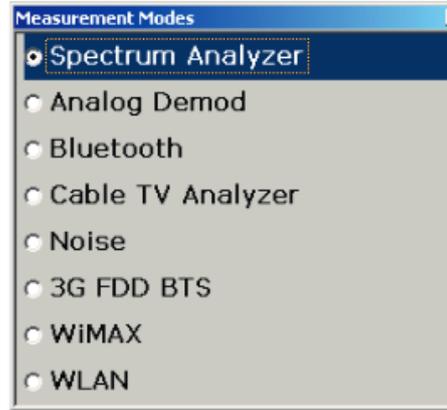
## Scalar network analysis\*



With the optional tracking generator, users can quickly and easily measure frequency response, filters and attenuation. The "n dB down" marker determines the 3 dB bandwidth of a bandpass filter at the press of a button.

\* For reflection measurement, an external VSWR bridge is required.

## Many predefined measurements



The R&S®FSL offers many different firmware options. The user can switch between different applications.

## Popular options/accessories

Description	Item
Spectrum analyzer, 9 kHz to 3 GHz	R&S®FSL3
Spectrum analyzer, 9 kHz to 6 GHz	R&S®FSL6
Spectrum analyzer, 9 kHz to 18 GHz	R&S®FSL18
OCXO frequency reference	R&S®FSL-B4
Additional interfaces	R&S®FSL-B5
Narrow resolution filters	R&S®FSL-B7
Gated sweep	R&S®FSL-B8
GPIB interface	R&S®FSL-B10
RF preamplifier (3/6 GHz)	R&S®FSL-B22
DC power supply, 12 V to 28 V	R&S®FSL-B30
NiMH battery pack	R&S®FSL-B31
Description	Option
AM/FM/φM measurement demodulator	R&S®FSL-K7
Power sensor support	R&S®FSL-K9
Spectrogram measurements	R&S®FSL-K14
3GPP FDD BTS application firmware	R&S®FSL-K72
WLAN transmitter measurements for IEEE 802.11a, b, g, j	R&S®FSL-K91
Noise figure and gain measurements	R&S®FSL-K30

## Use as power meter



Turn the R&S®FSL into a power meter with R&S®NRP power sensors and the R&S®FSL-K9 option.

## R&S®FSL unique features in its class

Portability, optional battery and 12/24 V DC power  
 Scalar network analysis up to 18 GHz  
 Many measurement options for analyzing standard communications signals

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