

# R&S® FPL1000 Spectrum Analyzer

## Experience high performance wherever you take it



### The perfect choice for

Research, education,  
service and  
maintenance

General purpose  
signal analysis and  
demodulation

Fast and easy  
integration for  
automated tests

Basic function tests  
and EMI debugging in  
R&D

### Key specifications

Frequency	5 kHz to 7.5 GHz
DANL at 1 GHz	typ. -166 dBm
Spurious response	typ. < -70 dBc
Analysis bandwidth	10 MHz, opt. 40 MHz
Phase noise at 1 GHz (10 kHz offset)	typ. -108 dBc (1 Hz)
Phase noise at 1 GHz (1 MHz offset)	typ. -135 dBc (1 Hz)
Overall amplitude accuracy	0.8 dB
TOI at 1 GHz	typ. +20 dBm
Standard attenuator range	45 dB
Attenuator step options	5 dB, opt. 1 dB

### Benchtop performance from a portable analyzer

The R&S® FPL1000 spectrum analyzer combines excellent RF performance with a small footprint. The light weight and optional battery/DC power make it the ideal instrument for the lab and in the field. Operating the multipoint touchscreen instrument is intuitive and fun. The R&S® FPL1000 performs multiple tasks in a single instrument at an attractive price.

### Models

R&S® FPL1003	5 kHz to 3 GHz
R&S® FPL1007	5 kHz to 7.5 GHz

### Your benefit

One instrument for  
multiple tasks

More space on your  
test bench

Portability

### Features

Spectrum analysis  
Power meter  
Analog and digital signal analysis

Smallest footprint in its class (depth of  
only 23.5 cm)

Carrying handle and low weight  
Optional battery pack for over three  
hours of operation  
Optional 12 V/24 V DC power supply

► For more information, visit

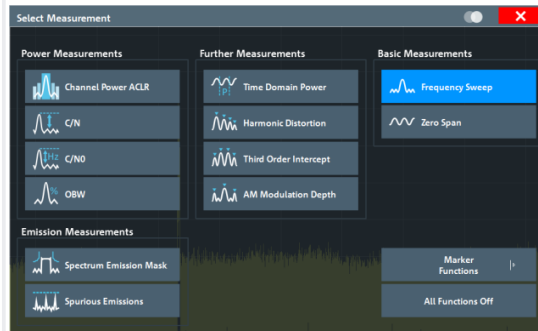
[www.rohde-schwarz.com/catalog/FPL1000](http://www.rohde-schwarz.com/catalog/FPL1000)

**Flexible user interface**



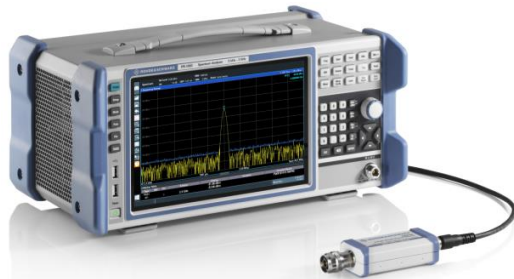
Configure your result windows the way you want. Display multiple measurement channels at once. Sequential channel updating allows e.g. parallel measurement of the spectrum, spectrogram and analog demodulation together with I/Q analysis.

**Many predefined measurements**

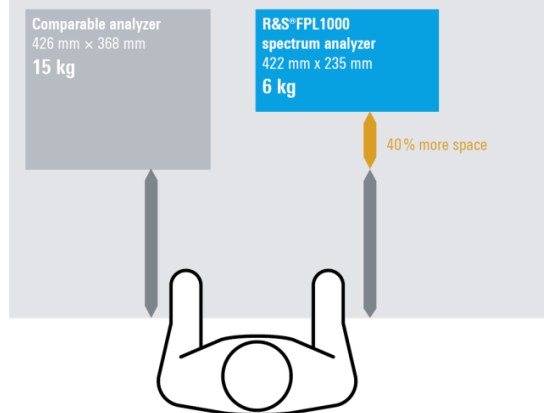


Fast and easy access to a wealth of measurement and marker functions in the base model, including spectrogram measurements and I/Q analysis. Quick configuration through clear menus and touchscreen operation.

**Use as a power meter**



Turn the R&S®FPL1000 into a power meter with R&S®NRP power sensors and the R&S®FPL1-K9 option.



The R&S®FPL1000 takes up 40% less space than comparable analyzers on a typical 80 cm workbench. It is the most portable benchtop analyzer, weighing 60% less.

**Popular options**

Hardware	Type
OCXO reference frequency	R&S®FPL1-B4
Additional interfaces	R&S®FPL1-B5
GPIO interface	R&S®FPL1-B10
Second hard disk (SSD)	R&S®FPL1-B19
RF preamplifier	R&S®FPL1-B22
1 dB steps for electronic attenuator	R&S®FPL1-B25
DC power supply, 12 V/24 V	R&S®FPL1-B30
Internal li-ion battery with charging unit	R&S®FPL1-B31
40 MHz analysis bandwidth	R&S®FPL1-B40
Firmware	
Analog modulation analysis for AM/FM/φM	R&S®FPL1-K7
Power measurements with R&S®NRP power sensors	R&S®FPL1-K9
Noise figure measurements	R&S®FPL1-K30
EMI measurements	R&S®FPL1-K54
Vector signal analysis	R&S®FPL1-K70
Multi-modulation analysis	R&S®FPL1-K70M
BER measurements with PRBS data	R&S®FPL1-K70P

**R&S®FPL1000 unique features in its class**

- Portability, optional battery and 12 V/24 V DC power
- High-resolution (1280 x 800 pixel) multi-touch screen
- 40 MHz analysis bandwidth (option)
- 1 dB attenuator steps (option)
- MultiView with sequencer
- Spectrum analysis from 5 kHz
- Class-leading RF performance
  - Low phase noise
  - Low DANL
  - High TOI
  - Low spurs

Rohde & Schwarz Representative