ROHDE&SCHWARZ
Make ideas real

R&S®FPC-EMI/IoT – 1 GHz SPECTRUM ANALYZER BUNDLE FOR EMI DEBUGGING DURING DEVELOPMENT AND VERIFICATION

The perfect choice for

- Universities
- Training
- R&D labs
- RF measurements

Key specifications	
Frequency range	5 kHz to 1 GHz (R&S®FPC-EMI1) 5 kHz to 1 GHz (R&S®FPC-IOT1)
Resolution bandwidth (–3 dB)	1 Hz to 3 MHz
Resolution bandwidth CISPR	200 Hz/9 kHz/120 kHz/1 MHz
DANL at 1 GHz (preamp on)	< –158 dBm/Hz with the R&S®FPC-B22
Receiver mode	R&S®FPC-K43
Scan step size	100 MHz
Export and display steps	1183 (standard); up to 20 000 with R&S®ELEKTRA

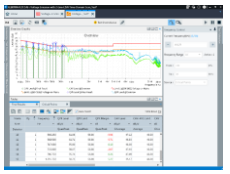
Cost-saving EMI solution

It is affordable and faster to fix EMI issues as early as possible in the product lifecycle during development. The Rohde & Schwarz recommended EMI debugging solution enables our customers to locate, analyze and eliminate EMI issues before they become a hindrance during compliance testing. The solution consists of hardware and the software option R&S®ELEKTRA, which is specifically designed to measure both conducted and radiated emissions.

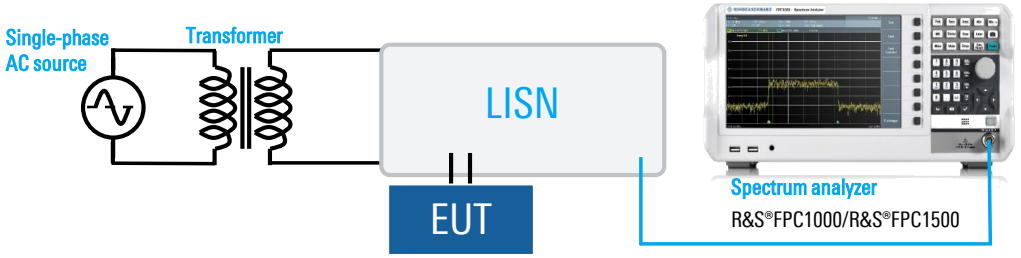
Your benefit	Features
Easy EMI troubleshooting	R&S®FPC-K43 helps locate failures with the receiver mode and channel scanner plots, quasi-peak CISPR detectors and log scale
Quick access to EMI functions	Preconfigured measurements: fixed frequency, channel scan, user defined channel scan, EMI precompliance, CISPR bandwidths and detectors
Easy-to-use R&S®ELEKTRA EMI software	Supports the measurement of both conducted and radiated emissions and also includes a limit line library, measurement automation and report generation

For prices and more information, visit
www.rohde-schwarz.com/product/FPC

Conducted emission setup



EMI software
R&S®ELEKTRA EMI



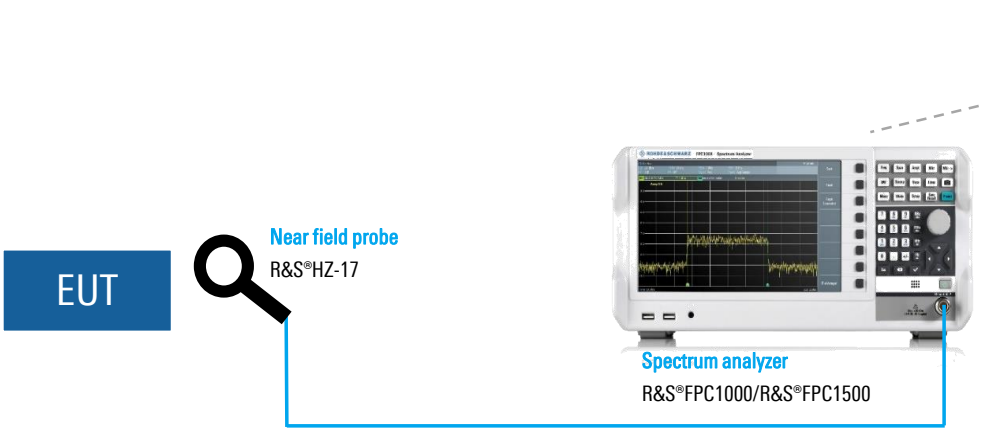
For line-conducted interferences measurement. The setup analyzes the level of RF energy coupled from the EUT to the mains supply.

Package	
Description	**Item**
R&S®FPC1000 spectrum analyzer, 5 kHz to 1 GHz R&S®FPC-B22 preamplifier R&S®FPC-K43 EMI receiver mode	R&S®FPC-EMI1 (1328.6660P61) R&S®FPC-IOT1 (1328.6660P62)

Accessories supplied: power cable, USB cable for connection to PC

Popular accessories	
Description	**Item**
Near field probe set, 30 MHz to 3 GHz	R&S®HZ-17
R&S®ELEKTRA EMI test package with R&S®EMCPC dongle	R&S®ELEMI-EP
Frequency extension from 1 GHz to 2 GHz	R&S®FPC-B2
Frequency extension from 2 GHz to 3 GHz (requires R&S®FPC-B2)	R&S®FPC-B3
Wi-Fi enabled throughout software	R&S®FPC-B200
Wi-Fi USB nano flash drive (requires R&S®FPC-B200)	R&S®FPC-Z2
Teaching kit to emulate RF signals	R&S®FPC-Z10

Radiated emission setup



R&S®ELEKTRA test software

R&S®ELEKTRA test software can control entire EMC test systems to perform automated or interactive electromagnetic interference (EMI) and electromagnetic susceptibility (EMS) measurements on equipment under test (EUT) to verify compliance with relevant standards.

Radiation emission testing uses near field probes for detection. This setup uses H field probes to measure EMI radiation from the EUT.

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Subject to change |