## **R&S®FPS Signal and Spectrum Analyzer** Compact and fast for automated tests



The perfect choice for	
Fast spectrum measurement	Analog and digital modulation analysis
R&D	Manufacturing testing

### **Compact and fast for automated tests**

The R&S®FPS is an exceptionally fast and compact signal and spectrum analyzer for performanceoriented users. In production and in monitoring systems, only 2 HU of rack space are required – a reduction of 50 % compared with traditional instruments.

Key specifications		
Frequency range	10 Hz to 4 GHz (R&S°FPS4) 10 Hz to 7 GHz (R&S°FPS7) 10 Hz to 13.6 GHz (R&S°FPS13) 10 Hz to 30 GHz (R&S°FPS30) 10 Hz to 40 GHz (R&S°FPS40)	
Signal analysis bandwidth	up to 160 MHz	
Level measurement uncertainty	0.4 dB (up to 7 GHz)	
Phase noise	-110~dBc (1 Hz) at 1 GHz carrier frequency and 10 kHz offset from carrier	
Third-order intercept (TOI)	+15 dBm	
Displayed average noise level (DANL)	–155 dBm	

Your benefit	Features
Ready for tomorrow's standards	Simultaneously measures signals of different standards (GSM, WCDMA, LTE, etc.) within the 160 MHz analysis bandwidth
High throughput for efficient production	Up to five times faster than other signal and spectrum analyzers

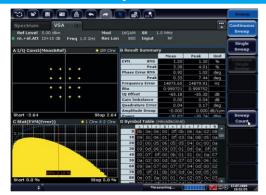
▷ For more information, visit www.rohde-schwarz.com/catalog/FPS



Fact Sheet | 01.00

R&S®FPS

#### Flexible modulation analysis from MSK to 256QAM



The R&S<sup>®</sup>FPS-K70 option enables users to flexibly configure the analysis of digitally modulated single carriers down to the bit level. The clearly structured operating concept simplifies measurements despite the wide range of analysis tools.

# Spectrum Analyzer Analog Demod Ref Value 0.00 Hz Minilog Att Level 5.00 dbm AQT 205 ys DBW 40 Mez Modulation FM Modulation FM Att 20 dB AQT 205 ys DBW 40 Mez Modulation FM Modulation FM Modulation Modulation Modulation FM Modulation Modulation FM Modulation Modulation</

The R&S°FPS-K7 AM/FM/ $\phi$ M measurement demodulator option converts the R&S°FPS into an analog modulation analyzer that measures not only characteristics of the useful modulation, but also factors such as residual FM and synchronous modulation.

### High throughput for efficient production



It only takes 1.1 ms to measure the adjacent channel leakage ratio (ACLR) of a 3GPP WCDMA signal.

### Multistandard radio analyzer (MSRA)



The MSRA simultaneously measures signals of different standards (GSM, WCDMA, LTE, etc.) at different frequencies within its 160 MHz analysis bandwidth.

Order information		
Description	Item	
Frequency range 10 Hz to 4 GHz	R&S®FPS4	
Frequency range 10 Hz to 7 GHz	R&S®FPS7	
Frequency range 10 Hz to 13.6 GHz	R&S®FPS13	
Frequency range 10 Hz to 30 GHz	R&S®FPS30	
Frequency range 10 Hz to 40 GHz	R&S®FPS40	

Popular options/accessories	
Hardware options	Item
RF preamplifier	R&S®FPS-B22/B24
Noise source control	R&S®FPS-B28V
40 MHz analysis bandwidth	R&S®FPS-B40
160 MHz analysis bandwidth	R&S®FPS-B160
Software options	
Pulse measurements	R&S®FPS-K6
Analog modulation analysis (AM/FM/ $\phi$ M)	R&S®FPS-K7
Vector signal analysis	R&S®FPS-K70
Noise figure and gain measurements	R&S®FPS-K30
Phase noise measurements	R&S®FPS-K40
Analysis of WLAN IEEE802.11a/b/g/j	R&S®FPS-K91
Amplifier measurements	R&S®FPS-K18
Analysis of EUTRA/LTE FDD downlink signals	R&S <sup>®</sup> FPS-K100
Analysis of EUTRA/LTE TDD downlink signals	R&S <sup>®</sup> FPS-K104
Analysis of GSM, EDGE and EDGE evolution signals	R&S®FPS-K10
Analysis of 3GPP FDD base station signals, incl. HSPA+	R&S®FPS-K72
NB-IoT downlink measurements	R&S®FPS-K106
V5G downlink measurements	R&S®FSW-K118

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