ROHDE&SCHWARZ

Make ideas real



R&S®FPL1-K70 VECTOR SIGNAL ANALYSIS

Flexible modulation analysis down to the bit level



The perfect choice for

Troubleshooting digital transmitters and signal path components

Analysis of digital modulation signals

Finding signal errors such as incorrect filtering and spurious emissions

Equalizer for filter design optimization

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Bit error calculation on known data sequences

Key specifications	
Modulation formats	 ≥ 2FSK, 4FSK ► MSK, GMSK, DMSK ► BPSK, QPSK, offset QPSK, DQPSK, 8PSK, D8PSK, π/4-DQPSK, 3π/8-8PSK, π/8-D8PSK ► 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 1024QAM, 2048QAM, 4096QAM ► 16APSK (DVB-S2), 32APSK (DVB-S2), 2ASK, 4ASK, π/4-16QAM (EDGE), -π/4-16QAM (EDGE), S0QPSK

Flexible modulation analysis down to the bit level

The R&S®FPL1-K70 option digitally analyzes modulated single-carrier signals down to the bit level. The clearly structured operating concept simplifies measurements despite the wide range of analysis tools.

- ► The R&S®FPL1-K70M multicarrier modulation analysis application allows DVB-S2X signals to be analyzed
- ► The R&S®FPL1-K70P allows measurement of raw bit error rate (BER) on PRBS data up to PRBS23

Numerous standard-specific default settings

- ► User-definable constellations and mappings
- ► GSM, GSM/EDGE
- ► 3GPP WCDMA, EUTRA/LTE, CDMA2000®
- ► TETRA, APCO25
- ► Bluetooth®, ZigBee
- ▶ DECT
- ► DVB-S2

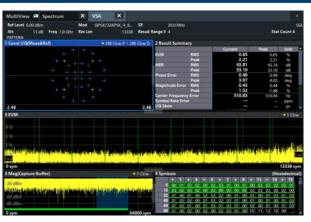
Your benefit	Features
Results automatically adapted to selected standard	A lot of standards available
Easy signal analysis of DVB-S2X signals	Additive option available for multicarrier modulation measurements
High flexibility	User-definable constellations and mappings

Analysis of Bluetooth 3-DH1 signal

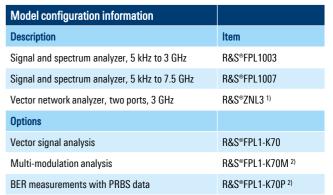


Analysis of a Bluetooth 3-DH1 signal. Constellation diagram, EVM, result summary, magnitude, spectrum and symbols with pattern detection all in one view.

Analysis of a multi-modulation signal



 $\label{lem:lemodulation} Demodulation of a DVB-SX2\ multi-modulation\ signal\ with\ the $R\&S^*FPL1-K70M\ option\ (R\&S^*FPL1-K70\ option\ required).$



¹⁾ requires option R&S®ZNL-B1

Analysis of a 64QAM signal



Analysis of a 640AM signal with the R&S®FPL1-K70 vector signal analysis option

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²⁾ requires option R&S®FPL1-K70