

In brief

R&S®SFC compact modulator and R&S®SFC-U USB compact modulator

The R&S®SFC compact modulator and the R&S®SFC-U USB compact modulator are economical multistandard signal sources. They support realtime coding for all established digital and analog TV and audio broadcasting standards. The R&S®SFC is equipped with a built-in computer, making it ideal for standalone operation. The R&S®SFC-U is a USB device designed for use with a PC.

The R&S®SFC and R&S®SFC-U have an extremely compact design. Though small in size, they are full-featured TV and audio broadcasting signal generators with integrated transport stream player, audio/video generator and optional noise source.

The ½ 19", 1 HU R&S®SFC is the most compact standalone TV and audio broadcasting signal generator on the market. It is ideal for rack installation in production test systems. It is controlled using remote desktop via LAN or remotely with SCPI commands. The instrument can also be operated directly with a mouse, keyboard and monitor.

The free R&S®Central TX System Control software has been designed specifically for controlling production test systems with multiple R&S®SFC modulators. The software allows users to conveniently control and monitor the generators in a test system via LAN. The software graphically displays the system configuration and indicates the current system status.

The R&S®SFC-U USB compact modulator offers the same signal generator functions as the R&S®SFC in an even smaller housing, saving a lot of space on the lab bench. The R&S®SFC-U is connected to the USB port of a host PC and controlled from the PC. Its wide range of functions make the R&S®SFC-U ideal for developing software

and hardware for TV sets and set-top boxes. In addition, both instruments support tried and tested functionality found in the Rohde&Schwarz high-end broadcast signal generators, such as external reference, digital I/Q input, 1 PPS input and ASI transport stream input.

Key features of the two instruments:

- ▀ High-precision modulator with MER > 40 dB
- ▀ VHF and UHF frequency range, optionally up to 3 GHz
- ▀ Level range from 0 dBm to -31.5 dBm, optionally to -110 dBm
- ▀ Transport stream player and audio/video generator
- ▀ AWGN generator

The two economical multistandard signal sources save a lot of space – both in racks in production test systems and on the lab bench.

