

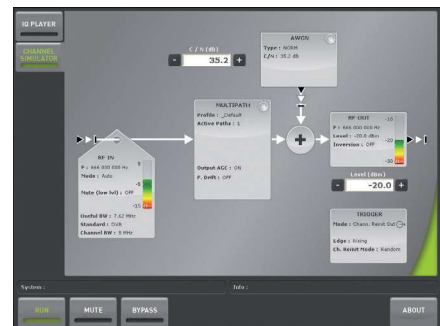
# RF-LIVESIM

Real-time RF Channel Simulator

**NEW**

Covering a frequency range from 50 to 900 MHz, RF Live Simulator can emulate RF channels propagation modes for a signal bandwidth from 20 kHz to 20 MHz (gaussian noise, multipath, Doppler and frequency drift tools).

RF-LiveSim is a cost effective solution for intense automatic non regression tests at the physical layer level.



## TECHNICAL CHARACTERISTICS

Standalone unit with PS/2 & VGA interfaces for screen-keyboard-mouse control

1x RF in, 1x RF out (isofrequency)

1x Ethernet port for remote control

Full remote control via SCPI (Standard Commands for Programmable Instruments) protocol

Signal level: output from -110 to -20 dBm without any interruption

Frequency range from 50 to 900 MHz, resolution 1 Hz

Variable bandwidth from 20 kHz to 20 MHz, resolution 1 kHz

Channel Propagation Profile: 20 independent paths adjustable (amplitude, delay, phase, Doppler)

Doppler profiles: -70 000 to +70 000 Hz (step 1 Hz), Amplitude distributions (Pure, Flat, Gaussian, Rayleigh, Rice)

Frequency drift & hopping without losing receiver synchronization

Preset configurations: terrestrial broadcast profiles such as TU6, rural, indoor/outdoor for fixed/portable devices as well as profiles for physical layers for WiMAX / LTE

AWGN Generator: Signal+Noise, Burst noise, Impulsive noise, Noise only

1x TRIG, 1x 10MHz in & 1x 10MHz out

1U rack form (450x500x44)

## APPLICATIONS

- **Chipset designers:** complete modulator/demodulator testing
- **Receivers manufacturers:** operating limit testing and robustness
- **R&D Laboratories:** intensive non-regression testing, design/product verification

## KEY BENEFITS

- **Real-time** channel profile simulations
- **Up to 20** adjustable independent terrestrial paths
- **Several preset configurations** available
- **Remotely accessible**
- **Easy to use** and configure
- **Test automation (SCPI compliant)**

## ORDERING CODE

RF-LiveSim

RF Live Channel Simulator - 50-900 MHz input/output - 1U rack