



Discover the Experience

EB Prosim F8 Complete solution for WiMAX Testing





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Advanced technologies such as MIMO and beamforming are crucial elements for the performance of advanced wireless systems. Laboratory testing of devices, applications and networks under real air interface conditions, in addition to using standardized radio channel models, for validating the basic functionality is a must for ensuring that the performance expectations of the end-user will be met.

EB Prosim F8 has the widest RF signal dynamic range, best channel linearity, highest number of physical and logical fading channels, and the cleanest spectrum available on the market. Designed as a future-proof solution, it meets and exceeds the performance requirements for testing wireless technologies for 4G and beyond.

EB Prosim F8 radio channel emulator enables testing of IEEE 802.16d and -e compliant mobile and base station performance. EB Prosim F8 supports WiMAX modulations from QPSK to 64QAM and beyond. The ability to run MIMO channel models and beamforming testing enables design verification and performance evaluation of WiMAX devices.

EB Prosim F8 basic configuration for WiMAX testing enables testing of mobile and base station designs and performance. Besides basic configuration EB offers variety of enhancements to enable/support more complex testing needs.

EB Prosim F8 basic configuration for WiMAX testing

- ▶ 4 fading channels each with 2 logical fading channels
- enables 2x2 MIMO testing
- ▶ Emulation of MIMO channels
- ▶ 1 integrated RF local oscillator
- ▶ Internal channel combining and splitting
- ▶ Standard channel models for WiMAX testing included
- ▶ Built in channel modelling tool for user defined channel models
- ▶ 350MHz-6GHz RF platform frequency range with following bands:
2.2GHz-3GHz, 4GHz-6GHz
- ▶ 70MHz RF bandwidth
- ▶ 24 fading paths per emulation channel
- ▶ Emulation of shadowing
- ▶ Automatic input level setting
- ▶ Built in input and output power measurement
- ▶ Internal interference generator for AWGN, CW
- ▶ Import of user defined channel models
- ▶ Playback emulation of measured radio channels
- ▶ Emulation of spatial channels

EB Prosim F8 enhancements available for WiMAX testing

- ▶ Up to 8 fading channels inside one emulator
- enables e.g. extension up to 4x4 MIMO testing
- ▶ Synchronisation of multiple emulators
- ▶ Up to 4 integrated RF local oscillators
- ▶ RF bands:
350 MHz-2.2GHz, 3GHz-4GHz
- ▶ 125 MHz RF bandwidth
- ▶ 48 fading paths per emulation channel
- ▶ Future extensions for 4 logical fading channels per fading channel
- ▶ 802.11n channel modelling tool
- ▶ 3GPP SCM/SCME channel modelling tool

