

Discover the Experience

Wideband Radio Channel Emulator EB Propsim C2

Improve Quality and Reduce Time-to-Market of Your Wireless Design

EB Propsim C2's high technical performance and accuracy helps to reduce the time-to-market of wireless products by speeding up all phases of the product development cycle, and enabling detection of design errors at the earliest and least expensive stage of development. With the MIMO channel emulation capability, EB Propsim C2 is a flexible test solution for product development, as well as for the integration and verification of MIMO-capable wireless designs and systems.





Wideband Radio Channel Emulator EB Propsim C2

Discover the Experience

Number of fading channels	up to 2 (4 channels with 2x2 MIMO option)
Number of fading paths	24/channel (12 paths with 2x2 MIMO option)
Number of physical RF interfaces (IN	and OUT) for fading channels up to 2
Emulation interfaces	RF, analog baseband, digital baseband
RF frequency range	350 MHz - 6 GHz
RF bandwidth	30 MHz
RF input level	-30 to 0 dBm
RF output level	-61 to -16 dBm
ABB input level	up to 630 mV p-p / 0 dBm
ABB output level	up to 630 mV p-p / 0 dBm
DBB input	up to 14 bits
DBB output	up to 14 bits
DBB clock rate	0 Hz - 30 MHz
Path delay resolution	0.1 ns
Path delay accuracy	+/- 1 ns
	n ge) up to 400 μs (1.6 ms optional)
Delay profiles	Constant, sinusoidal sliding delay, Linear sliding delay, 3GPP birth-death
Channel combining and splitting	Internal, digital
Relative path attenuation	0 - 60 dB
Fading profiles Constant, Ray	leigh, Rice, Jakes (Classical), flat, rounded, pure Doppler, Arbitrary (with external tools)
Standard channel models	GSM/GPRS/EDGE, 3GPP standard and deployment, 3GPP2, ITU 3G, JTC
Doppler shift	up to 23 kHz
Vehicle speed	up to 12 500 km/h
Playback emulation of measured rad	o channels Yes
Import of user defined channel mode	
Interference generator	Internal (optional)
Interference signal types	AWGN, CW, GMSK, WCDMA-DL, 8-PSK, WCDMA-UL (optional each)
RF local oscillator	Internal (optional)
Shadowing	Internal (optional)
	Integrated (touch screen and keyboard)
ATE connections	Ethernet, GPIB
Power supply	90 - 240 V, 50/60 Hz, 500 W
Mechanical dimensions (h x w x d)	320 x 430 x 510 mm
Weight	27 kg

Elektrobit System Test Ltd., P.O. Box 45, Automaatiotie 1, FI-90461 Oulunsalo, Finland, Tel.: +358 40 344 2000, Fax: +358 8 570 1301 www.elektrobit.com

Copyright 2007 Elektrobit (EB). All rights reserved. The information contained herein is subject to change without notice. EB retains ownership of and all other rights to the material expressed in this document. Any reproduction of the content of this document without prior written permission from EB is prohibited.