

sofi 07

Simulate
any environment
in your lab



sofi Radio Channel Fading Simulator

HIGH DIGITAL PERFORMANCE

WIDE INPUT & OUTPUT LEVEL RANGE

A PROVEN COST EFFECTIVE SOLUTION

REPEATABLE TESTS



APPLICATIONS

- + Test radio performance under fading and AWGN
- + LTE & WiMAX fading with MIMO option
- + 3G conformity and deployment tests, 25.xxx series (eg. 25.101, 25.141)
- + Fading environments for HSDPA and E-UTRA
- + GSM, GPRS, GSM 450 / 480 / 850 / RGSM / DCS / PCS
- + Timing advance tests, handover tests, mobile speed simulation
- + Wireless LAN 2-6 GHz
- + TETRA device testing
- + DVB-T / DVB-C / DVB-H
- + Military communications
- + Can be customised for other wireless technologies

SPECIFICATIONS

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BANDWIDTH	26 MHz customization up to 32 MHz	20 MHz
FREQUENCY RANGE	1600 – 6000 MHz model 6G, 160/380 – 2700 MHz model 3G	380 – 2700 MHz
OPERATING LEVELS	RF-input -40 dBm to 0 dBm, RF-output -40 dBm to 0 dBm -167 dBm to 0 dBm (with channel attenuator for 3G)	
INTERNAL LOCAL OSCILLATOR (OPTIONAL)	Adjustable Gain Control as standard, can gain or attenuate both input and output levels	
AWGN	Carrier + 140 MHz, +13dBm (automatic offset, no LO-input)	
FADING MODELS	SISO (W-CDMA, HSPA, GSM, TETRA..)	2x2 MIMO (LTE 3GPP 36.101/.104/.521)
PATHS	24 (2x12) or 12 (2x6)	18
DELAY / DISTANCE MAXIMUM	12.5 ms @ 1ns step / simulated distance 3747 km	
RELATIVE PATH LOSS	0-58 dB (additional 8 dB in reserve)	
DOPPLER / SPEED MAX	4000 Hz / simulated speed max 744 km/h @ 5.8 GHz	
RF-PERFORMANCE	typical 2400 MHz, bandwidth 26 MHz	
SIGNAL / NOISE	60 dB	
SPUR. SIGNALS IN BAND	47 dB	
OUT /BAND S. SIGNALS	59 dB	
LO LEAKAGE	50 dB	
IMD	45 dBc (3 path measurement)	
RF-CONNECTORS	50 ohm N-females for RF-in, RF-out and LO-in	
REMOTE CONTROL	IEEE-488.2, RS-232, SOFILINK, BNC triggers option IPC: VGA, LAN100 RJ-45, 2xUSB	
DIMENSIONS	308 mm x 483 mm x 513 mm	449 mm x 221 mm x 436 mm

Specifications are subject to change. Please contact us for more details about our products.

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