WLAN · WIMAX · MIMO · OFDM/A · GSM · W-CDMA Test your signals with the newest, most advanced innovations for wireless test



# What's your signal?

## The Complete Cellular Suite

- RF Parametrics (W-CDMA/GSM/EDGE/ cdma2000/TD-SCDMA)
- Fast Calibration (Qualcomm compatible)
- Non-signaling BER/SER
- Bluetooth
- GPS
- Mobile Video (MediaFLO, DVB-H)

### The Most Advanced Connectivity Solution

- 802.11n (up to 4x4 MIMO capabilities)
- 802.11a/b/g/j/n (high speed SISO capabilities)
- 802.16e (Wave 2 upgradable)

## Wide Bandwidth Signal Creation and Analysis Flexibility

- Built-in general Digital Modulation Signal Generation
- Easy MATLAB® connectivity



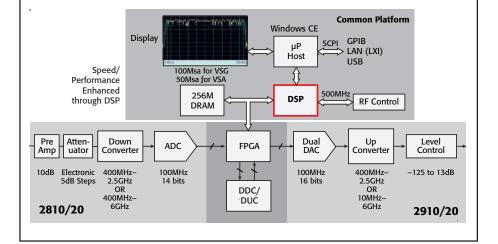






ASK/PSK FSK/QAM

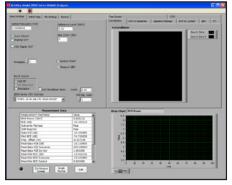
- NEW Series 2900 RF Vector Signal Generators with maximum frequencies of 4GHZ or 6GHZ can generate signals as low as 10MHz.
- NEW Series 2800 RF Vector Signal Analyzers with 40MHz of bandwidth as standard in either a 4GHz or 6GHz model.
- Flexible and fast remote connectivity for LAN (LXI), USB, and GPIB.
- High speed embedded DSP measurements technology for GSM, EDGE, W-CDMA, IS2000, SISO WLAN, and even the industry's most demanding signal, 802.11n MIMO with 40MHz of bandwidth.
- Patented single down/ up conversion and digital processing techniques reduce cost while maintaining performance.



Series 2900 RF Vector Signal Generators and Series 2800 RF Vector Signal Analyzers provide a higher performance measurement engine on top of a digital IF (intermediate frequency) architecture.

#### Superior Software Analysis Tools

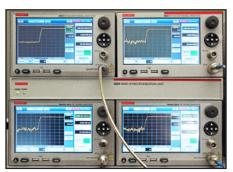
- Keithley software suites for WLAN 802.11 b/g, 802.11 a/g, 802.11n (with 40MHz channels), WiMAX/WiBro, MIMO.
- MATLAB A key tool for RF communications R&D.
- Free Keithley tools ARB GenView for generic digital modulation, KI 2810 VSA for additional data display.



Series 2800 WiMAX Analyzer

#### Superior Performance, Flexibility and Value for MIMO

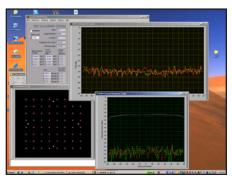
- Uses standard MIMO-ready instruments for full 4×4 signal generation and analysis to 6GHz.
- Less than -40dB (Characteristic) EVM (Error Vector Magnitude) for 4×4 40MHz wide signals.
- Precise and stable RF carrier and waveform synchronization; no extra calibration is required.
- Provides lowest cost per channel for 6GHz/40MHz performance.



Keithley's 6GHz MIMO-ready instruments and new MIMO Synchronization Unit

merator Anaboer Deplays Options Holp		_		_	_	-		
802.11n MIMO-OFDM	-							_
7 Additions MCI: 11								
o hou water	25							10
Abien Lovel samples devices a 14400				1	•			· •
	10							101
Frequency bear (HD): -39,40 RMS DARI (40): -37,79								
	2							19
Plan Squeet Lokape Cyde Vehaper (HPC) Shit (Sh.								
6.50 AT1 -21.71 AT1 3.20	1 A 1							2° -
8.699 A12 -55.55 A12 1.00								
0.30 Art 0.300 Art 3.30								
HT Cash	1							.6
EVA: SM (C)								
27.7 Stream 1 1.10 -27.9 Stream 2 1.10								
E-RD Stream 5 3.10	2.				•			
6.40 Stream # 3.32								
KEITHLEY								
A DENTEN HENRING OF CONFERENCE								
Gen.AND Files			Searce .	-	Г	Paule		940
Data Files 2010 Configuration all File		- gan	1110	-			100	Sample Flats
terner   manual menuel								
Chan 1 2012		epited						
CONTRACTO INTERNAL		1 00000	puncy in		110 3 M B	eptone (se	KOC/I	
	1			-				
Cher 2 2013		n Hener (	( <b>3</b> )(1		andradd? 20200000	SR (HE)		
Reaction and a	-	-				ALC STR		
	P	Auto At	and the		10			
Cher 2 2812						5410403		
	•	NEC/147						
TOPPODE KOADE DIE SIZE SOORT		99.00	Level CBA		-25.0	per caute		
TOPPE OR 40.428 LTM S225 SOCIET	1			J	28.9	per Calor		

**MIMO Receiver OFDM Analysis Software** 



Keithley MIMO software simultaneousLY sources and receives a 2×2 measurement.

## Building on Award-Winning Innovation and Performance

The Models 2810 and 2910 received numerous prestigious awards, including Product of the Year, during their inaugural year alone.

- 2006 Product of the Year Award *Electronic Products* Magazine; Test Instrument Category.
- Finalist, Innovation Award; EDN Magazine; Test & Measurement Category.
- Honorable Mention, 2006 Best in Test Awards Test & Measurement World Magazine.
- 2006 Innovation Award Electronics Magazine Asia.



Specifications are subject to change without notice. All Keithley trademarks and trade names are the property of Keithley Instruments, Inc. All other trademarks and trade names are the property of their respective companies.



A GREATER MEASURE OF CONFIDENCE

KEITHLEY INSTRUMENTS, INC. 28775 AURORA ROAD CLEVELAND, OHIO 44139-1891 440-248-0400 Fax: 440-248-6168 1-888-KEITHLEY www.keithley.com

© Copyright 2007 Keithley Instruments, Inc.

No. 2880