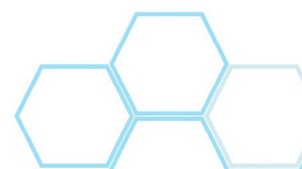
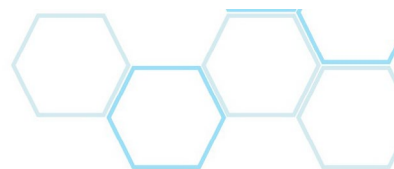


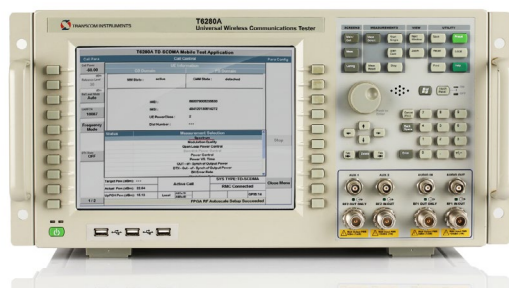
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Product Brochure



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Universal Wireless Communication Test Set



Overview

The Universal Wireless Communication Test set T6280A supports 70-3300MHz. The Test set evaluating the key Tx/Rx characteristic for LTE(FDD/TDD), TD-SCDMA/HSPA, GSM/GPRS/EGPRS, WCDMA/HSPA and CMMB mobile terminals. With the powerful SDR platform which supports customized functions.

Key Features

- LET(TDD/FDD)
- TD-SCDMA/HSPA
- GSM/GPRS/EDGE
- WCDMA/HSPA/HSPA+
- Fast Calibration Support
- Non Signalling Test

Applications

- Cellular phone manufacturers
- Cellular phone repairing
- Chipset manufacturers

RF Generator	
Frequency Range	70MHz to 3300 MHz
Adjust Step	1Hz
Output Ports	RF In/Out (N type female) RF Out (N type female)
Output Impedance	50 Ω
CW Output Level Range	RF IN/OUT Port: -130 to -20 dBm RF OUT Port: -110 to 0 dBm
Level Uncertainty	< ± 1 dB
Level Setting Resolution	0.1 dB
Power Repeatability	< ± 0.05 dB
Channel Bandwidth (1dB)	21MHz
VSWR(RF In/Out Port)	70MHz to 3000MHz: < 1.3:1 3000MHz to 3300MHz: < 1.6:1
Harmonics Spurious	< -30 dBc
Non-harmonics Spurious	< -40 dBc
RF Analyzer	
Frequency Range	70MHz to 3300 MHz
Adjust Step	1Hz
Input Port	RF In/Out (N type female)
Input Impedance	50 Ω
Input Level Range	< +33 dBm
Measurement Accuracy	< ± 1 dB
Meas.Repeatability	< ± 0.1 dB
Measurement Resolution	0.01 dB
Channel Bandwidth (1dB)	21MHz
Frequency Meas.Range	± 200 KHz
Freq.Meas.Resolution	1Hz
Freq.Meas.Accuracy	± 2 Hz

Audio	
Input Ports	Audio In (Front)/MIC (Rear)
Input Impedance	> 10K Ω
Output Ports	Audio Out (Front)
Output Impedance	< 20 Ω
Freq.Response.Flatness	< 1dB (100Hz to 20KHz)

Timebase	
Reference Frequency	10MHz
Aging Rate	< ± 0.1 ppm/year
Temperature Stability	< ± 0.01 ppm
Accuracy	\pm [Aging + Stability]
Reference Input Range	10MHz \pm 5 ppm
Input Port	Ref Input (BNC)
Input Level	0 to +10 dBm(Sine/TTL)
Input Impedance	50 Ω
Output Port	Ref Out (BNC)
Output Level	0 to +10 dBm
Output Impedance	50 Ω

Control Ports	
Remote Programming	GPIO (IEEE 488.2) /LAN
USB-A	5 USB2.0 ports
Trigger Output	BNC female (TTL)
Trigger Input	BNC (TTL)
Bi-directional	DB9 (5 TTL)
System Sync	20 pairs LVDS
Displayer Port	VGA/DVI-D

General	
Operating Temperature	+10 ~ +40 °C
Storage Temperature	-20 ~ +65 °C
Humidity	20% to 80%
Dimensions(HxWxD)	222 x 426 x 533 mm
AC Power Input	100 to 240V, 50 to 60 Hz
Displayer	10.4 inch XGA (1024 x 768)
Touch Panel	4096x4096 resistor touch
Operating System	Windows XP
AC Power Consumption	< 450 W
Weight	< 25 Kg
Warm Up Time	30 minutes
Calibration Interval	1 year

Options	
T6280-Base	T6280 base platform,required option
T6280-TD	TD-SCDMA testing software,including calibration and signaling-mode tests
T6280-TFDT	TD-SCDMA fast calibration option (T6280-TD option is required)
T6280-TNST	TD-SCDMA non-signaling-mode test option (T6280-TD option is required)
T6280-TD-HSPA	TD-HSDPA/HSUPA testing software (T6280-TE option is required)
T6280-GSM	GSM testing software,including calibration and signaling-mode tests
T6280-GFDT	GSM fast calibration option (T6280-GSM option is required)
T6280-GNST	GSM non-signaling-mode test option (T6280-GSM option is required)
T6280-GGE	GPRS/EGPRS testing software,including calibration,FDT,signaling-mode tests
T6280-WCDMA	WCDMA testing software,includinng calibration,WCDMA-FDT,signaling-mode
T6280-WFDT	WCDMA fast calibration option (T6280-WCDMA option is required)
T6280-WNST	WCDMA non-signaling-mode test option (T6280-WCDMA option is required)
T6280-W-HSPA	WCDMA-HSDPA/HSUPA testing software (T6280-WCDMA option is required)
T6280-W-HSPA+	WCDMA-HSPA+ testing software (T6280-W-HSPA option is required)
T6280-LTE-TDD	LTE-TDD testing software
T6280-LTE-FDD	LTE-FDD testing software
T6280-Cal-Report	the third-party calibration report

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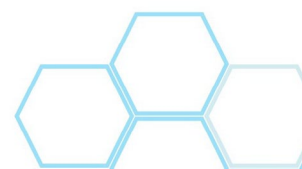
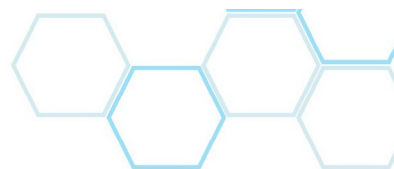
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Product Brochure



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RFID Tester T8601



Overview

This RFID tester is a custom design to suit your products or semi-finished products testing needs. Voltage monitor, current detection, spectrum analysis and transmission are combine into one unit. With flexible, reliable, powerful and expendable, this tester fill up the gap in the RFID testing equipment market.

Features

- Combined spectrum, simulator and supply in one unit
- Spectrum function for transmission monitoring
- Simulate RFID transmitter signal
- Power supply provide voltage and current testing for the DUT
- Powerful customize testing software
- Flexible and scalable

Advantage

- Highly integration
- Customized software testing procedure
- Flexible testing frequency range
- Single button solutions

Specifications	
Frequency Range	5700MHz~5900MHz (selectable and expendable)
Display Power Range	-80dBm~+10dBm (RBW @1KHz)
Accuracy	±1dB
Resolution Bandwidth	100Hz to 5MHz 1/2/3/5/10 steps
Speed	spectrum: 50ms~1000s time domain: 25us~1000s
Function	maximum hold,average ACP、OBW
Signal Generator	
Frequency Range	5700MHz~5900MHz (adjustable)
Resolution	10KHz
Phase Noise	<-80dBc/Hz @10KHz
Accuracy	5ppm
Output Power Range	-80dBm~0dBm
Output Power Accuracy	±1dB
Modulation Type	amplitude modulation: sine wave,square wave (max 400kbps) pulse modulation:adjustable pulse wide (max 500kbps) digital modulation (option)
Voltage and Current Testing	
Output Voltage	DC 1.5V-5.5V (0.1V step)
Voltage Testing Range	DC 1.5V-5.5V
Testing Ports	3 ports (port 1 and 2 is voltage testing;port 3 is current testing)
Output Current	<1A
Voltage Accuracy	0.1V
Current Testing Range	1uA-1A
Current Testing Accuracy	>1mA ±5% <1mA ±10%
Port Switching Time	<100ms
Others	
Data Ports	support GPIB,Ethernet,USB and VGA
Operating Temperature	0 - 35℃

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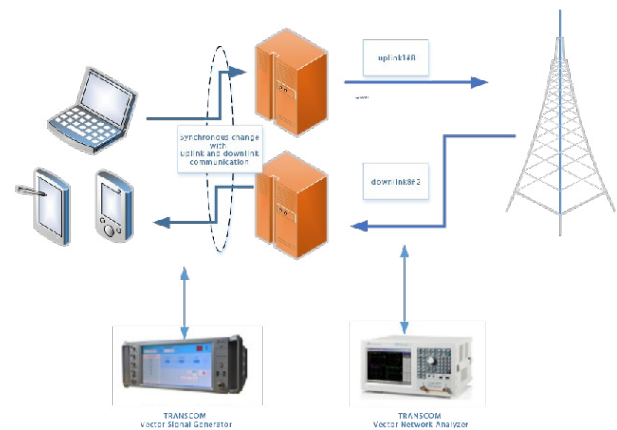
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MIMO Channel Simulator



Overview

MIMO (Multiple Input Multiple Output) has become the key technology of next generation of communication due to the capacity advantage. The space characteristics can be fully utilized in MIMO to increase the system capacity while the transmission power and bandwidth are maintained.

The complex $8 \times n$ and 801.11ac technology may result in a number of problems in the laboratory. As they are sensitive to the phase, engineers must accept large errors of accuracy or spend hours in manual calibration and re-calibration of RF simulation environment. The MIMO channel simulation test system of TRANSCOM can help to realize the automation of calibration and provide the required precision and efficiency. The system or terminal performance test can be done indoors by presenting the fading characteristics of spatial transmission of wireless signals in the instrument.

Main advantages:

- Simplify the test

The complicated procedures which may easily result in errors in the accurate test of complex RF signals can be simplified and optimized.

- Create a real world in the laboratory

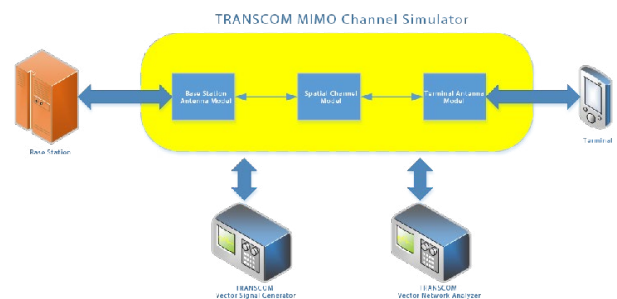
TRANSCOM can bring the real RF scene into the laboratory, including the captured driving test scene and complex MIMO scene.

- Maximize the efficiency of resources

Even the most inexperienced member can rapidly and correctly establish and call the most complex test case.

Main characteristics:

- The control process can be simplified even in the complex MIMO environment, due to the touch screen type graphical user interface.
- Automatic phase calibration of higher time efficiency can be realized in the $8 \times n$ /TD-LTE/802.11ac test.



- Support key channel simulation characteristics of TRANSCOM.
- Dynamic environment emulation (DEE).
- Extensible bandwidth (up to 70MHz).
- Enhanced power output and dynamic range.

Features

- Provide four MIMO wireless channel simulator prototypes.
 - a) Support the signal bandwidth of 70MHz and simulation of 4x4 MIMO channels.
 - b) The modular architecture can be extended to simulation of 4x4 channels.
 - c) Flexible simulation interfaces, including RF and DBB (digital baseband).
 - d) Complex multi-path (48 paths) fading in each channel.
 - e) RF channel system covering the frequency range of 400MHz to 6GHz.
 - f) The low-distortion channel supports high-order modulation (such as 64QAM).
 - g) Implementation technology for high-speed baseband signal processing.
 - h) Self-correction of MIMO channel simulation system.
 - i) Support multi-functional interfaces, including RF, analog baseband and digital baseband.
 - j) Flexible application architecture, supporting two-way synchronous test.

- MIMO channel simulation algorithm and implementation technology
- a) Simulation of large and small channel parameter.
- b) Support the typical/customized channel fading model.
- c) Support the MIMO-based channel model.
- d) Support the high-speed mobile environment.
- e) Support AWGN digital noise adding to provide the accurate C/N or SNR.
- f) Support the carrier aggregation and CoMP test.
- g) Support rapid dynamic control of channel parameters and realize dynamic environment emulation (DEE). The controlled parameters include the status duration, channel output level, relative path power, etc.

- Provide the open development interface for the user to program the test function according to the equipment and test requirements. Parameter configuration and channel characteristic simulation are integrated in the test environment.
- Support the data acquisition, playback and offline analysis of channel simulation. Apply the complete information analysis function, and realize information output to the terminal.

RF Transmitter	
Frequency Range	400MHz to 6000 MHz
Frequency Resolution	10Hz
Output Port	RF OUT N type (female)
Output Impedance	50 Ω
CW Output Power Range	RF OUT port: -80 to -10 dBm
CW Output Power Accuracy	< ± 1 dB
CW Power Setting Step	1 dB
Output Gain Flatness	1dB@70MHz
Channel Bandwidth(1dB)	70MHz
Out-of-band Stray	< -30 dBc
RF Receiver	
Frequency Range	400MHz to 6000 MHz
Frequency Resolution	10Hz
Input Port	RF OUT N type (female)
Input Impedance	50 Ω
Input Power Range	-40 to 10 dBm
Power Setting Step	1 dB
Passband Flatness	1dB@70MHz
Channel Bandwidth(1dB)	70MHz
Out-of-band Stray	< -30 dBc
RF to RF Interface Specification	
Channels	1-4
(per)Channel Order	48
Minimum Delay	2 μ s
Amplitude Flatness	± 1 dB(70MHz bandwidth)
Channel Group Delay	$\pm 0.25\mu$ s (50MHz bandwidth);
$\pm 0.5\mu$ s (100MHz bandwidth)	< ± 1 dB
Parasitism Caused By Aliasing	-60 dBc
RF Local Oscillator	
Frequency Range	400MHz to 6000 MHz
Frequency Resolution	10Hz
SSB Phase Noise	
1000MHz	-75dBc/Hz @1kHz offset carrier -95dBc/Hz @20kHz
2500MHz	-70dBc/Hz @1kHz offset carrier -100dBc/Hz @100kHz
5000MHz	-60dBc/Hz @1kHz offset carrier -95dBc/Hz @100kHz
Sideband Parasitism	< -60dBc (± 100 kHz carrier)
VSWR	< 2:1

Channel Interference Specification	
Numbers of Interference Signal (each channel)	1-5
Frequency Range	400MHz ~ 6000MHz
Frequency Offset Range	-50 ~ +50 MHz
Frequency Resolution	10kHz
Frequency Accuracy ¹	±1kHz
Frequency Accuracy ²	±0.1kHz
C/R Ratio	0.1dB
Interference Level Range	-35 ~ -10dBm
Interference Level Resolution	0.1dB
Interference Level Accuracy	±1dB
Noise Power 【1HZ bandwidth】	
> +/-500kHz	< -130dBm/Hz
> +/-700kHz	< -132dBm/Hz
> +/-1500kHz	< -135dBm/Hz
Harmonic/Stray Signal	
> +/-500kHz	< -80dBc
> +/-700kHz	< -85dBc
> +/-1500kHz	< -95dBc
Remote Control Port	LAN
USB-A	5 USB2.0
Trigger Signal Output Port	BNC female (TTL)
Trigger Signal Input Port	BNC (TTL)
Bidirectional Programmable Port	DB9 (5 TTL)
System SYNC Port	20 pairs LVDS
Display Port	VGA/DVI-D
Time Base Specification	
Reference Clock Frequency	100MHz
Aging Ratio	< ±0.1 ppm/year
Temperature Stability(reference +25 °)	< ±0.01 ppm -75dBc/Hz @1kHz -95dBc/Hz @20kHz
Output Frequency Accuracy (after warm-up 30 min)	aging shift + stability
External Reference Frequency Range	100MHz ± 5 ppm
Input Port	REF Input(BNC female)
Input Level	0 to +10 dBm(Sine/TTL)
Input Impedance	50Ω
Output Port	REF Out (BNC female)
Output Level	0 to +10 dBm
Output Impedance	50 Ω
General	
Operationg Temperature	+10 ~ +40 °C
Storage Temperature	-20 ~ +65 °C
Humidity	20% ~ 80%
Dimensions(HxWxL)	222 x 426 x 533 mm
AC Power	100 ~ 240 VAC, 50 ~ 60 Hz
LCD	10.4 inch XGA (1024 x 768)
Touch Screen	4096x4096 resistive
Operating System	Windows XP
Consumption	< 450 W
Weight	< 25 Kg
Calibrating Period	1 year

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