

WT-328E

无线连接测试仪

Wireless Connectivity Tester



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产品简介 Introduction

WT-328E是一款面向Wi-Fi 6E WLAN产品测试的高端无线网络测试仪器，支持400M~7.3G频段的射频信号测试，可为Wi-Fi 6E产品提供可靠、高效的射频测试方案。两套独立的信号收发单元，单机可支持2X2 True MIMO测试，支持MU-MIMO；优异的测试规格指标和高效的测试效率可同时满足研发和生产测试场景。

关键特性 Key features



1

Wi-Fi 6E测试

- 测试频段扩展到400M~7.3G, 支持行业最新的Wi-Fi 6E标准, 160M带宽残余EVM典型值达到-47dB。满足DUT最优性能的测试, 测试精度更高, 有利于提升直通率。

2

MIMO测试

- 拥有两套测试单元。
单机支持2x2 True MIMO测试；
堆叠支持8x8 True MIMO测试；
支持MU-MIMO。

3

8端口并行测试

- 拥有先进的高速、高隔离度的开关矩阵, 端口隔离度达110dB(典型值)。支持8个端口并行测试, 将仪器利用率发挥到极致, 降低产品测试成本。

4

高可靠性

- 可防护5V以下直流电压, 接触放电条件下, 防静电能力达到7KV。

可扩展业务

- WLAN(802.11 ac/ax 80/80+80/160)
- WLAN(802.11 a/b/g/n/p);
- Bluetooth(1.0/2.0/3.0/4.0/4.1/4.2/5.0)/BLE;
- MIMO/MU-MIMO;
- IoT: ZigBee/Z-Wave/LoRa/802.11ah...;
- Navigation: GPS/BDS/GLONASS;
- DECT(ETSI EN 300 176-1);

General Technical		
Input/Output frequency range	400M to 7300 MHz	
IF bandwidth	180 MHz	
Input power range	+30 dBm peak (+25 dBm average)	
Output power range(CW) (RF-A1 to RF-B4)	0 to -100 dBm	
Input power accuracy	Specification: ± 0.5 dB (+25 to -40 dBm)	
	Typical: ± 0.3 dB (+25 to -40 dBm)	
Output power accuracy (RF-A1 to RF-B4)	Specification:	± 0.75 dB (0 to -90 dBm) ± 1.50 dB (-90 to -100 dBm)
	Typical:	± 0.50 dB (0 to -90 dBm) ± 1.00 dB (-90 to -100 dBm)
Signal to noise ratio	Specification: ≥ 60 dB(100 KHz RBW),power level -10 dBm	
	Typical: ≥ 70 dB(100 KHz RBW),power level -10 dBm	
Spurious(signal applied)	< -70 dBc(CW,for signal levels greater than -10 dBm)	
Inherent spurious floor(no signal)	≤ -95 dBm(100 KHz RBW)	
Quantization	14 bits	
Noise figure	≤ 26 dB at minimum input attenuation	
Input/Output return loss	> 13 dB	
Sampling data rate	30, 60, 120, 240 MHz	
Spectral flatness	Specification: $\leq \pm 0.75$ dB (± 80 MHz)	
	Typical: ± 0.5 dB (± 80 MHz)	
Port to Port Isolation	> 110 dB Typical	
WLAN (802.11a/b/g/n/p/ac/ax)		
EVM	Residual VSA EVM (full packet channel estimation):	≤ -47 dB for 20 M(typical: -50 dB) ≤ -47 dB for 40 M(typical: -50 dB) ≤ -46 dB for 80 M(typical: -48 dB) ≤ -45 dB for 160 M(typical: -47 dB)
	Residual VSG EVM: (full packet channel estimation):	≤ -47 dB for 20 M(typical: -50 dB) ≤ -47 dB for 40 M(typical: -50 dB) ≤ -46 dB for 80 M(typical: -48 dB) ≤ -45 dB for 160 M(typical: -47 dB)
Peak power	VSA power accuracy: ± 0.5 dB (+20 to -45 dBm)	
RMS power		
Frequency error	VSA measurement error: $\leq \pm 0.2$ ppm calibrated	
RMS phase noise	VSA integrated phase noise: < 0.3 degrees (100 Hz to 1 MHz)	
Spectral mask	Spectral mask view: ± 90 MHz	
Spectral flatness	VSA flatness over 160 MHz BW: ± 0.75 dB	
CCDF (complementary cumulative distribution function)	Probability of peak signal power being greater than a given power level versus peak-to-average power ratio (dB)	
Bluetooth® (1.0/2.0/2.1/3.0/4.0/4.1/4.2/5.0)BLE		
TX output power	VSA power accuracy: ± 0.5 dB(+20 to -45 dBm)	
TX output spectrum		
Modulation characteristics	(For EVM better than -25 dB) VSA measurement error: $\leq \pm 0.2$ ppm calibrated	
Carrier frequency tolerance		
Carrier frequency drift		
RMS EVM (EDR)	Residual VSA EVM: ≤ -35 dB (+20 to -30 dBm)	
Peak EVM (EDR)	Residual VSG EVM: ≤ -35 dB (-10 to -70 dBm)	



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