

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400MHz~7.3GHz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测试；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400MHz~7.3GHz,支持行业最新的Wi-Fi 6E标准,160M带宽残余EVM典型值优于-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测试。

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	400 MHz to 7300 MHZ		
IF bandwidth	180 MHz		
Input power range	+30 dBm peak (+25 dBm averqge)		
Output power range(CW)	+5 dBm to -100 dBm (400 MHz to 6500 MHZ) 0 dBm to -100 dBm (6500 MHz to 7300 MHZ)		
Input power accuracy	Specification: ±0.5 dB(+25 dBm to -40 dBm)		
	Typical: ±0.3 dB(+25 dBm to -40 dBm)		
Output power accuracy	Specification:	±0.75 dB (+5 dBm to -90 dBm,400 MHz to 6500 MHz) ±1.50 dB (-90 dBm to -100 dBm,400 MHz to 6500 MHz)	
		±0.75 dB (0 dBm to -90 dBm,6500 MHz to 7300 MHz) ±1.50 dB (-90 dBm to -100 dBm,6500 MHz to 7300 MHz)	
	Typical:	±0.50 dB (+5 dBm to -90 dBm,400 MHz to 6500 MHz) ±1.00 dB (-90 dBm to -100 dBm,400 MHz to 6500 MHz)	
		±0.50 dB (0 dBm to -90 dBm,6500 MHz to 7300 MHz) ±1.00 dB (-90 dBm to -100 dBm,6500 MHz to 7300 MHz)	
Generator 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)		
Spurious(in channel)	Specification: ≤-40 dBc (160 MHz,>-55dBm)(CW)		
	Typical: ≤-50 dBc (160 MHz,>-55dBm)(CW)		
Inherent spurious floor(no signal)	≤-95 dBm(100 KHz RBW)		
Noise figure	≤26 dB at minimum input attenuation		
Input/Output return loss	>13 dB		
Gap power	≤-90 dBm/100 KHz		
Sampling data rate	30 MHz, 60 MHz, 120 MHz, 240 MHZ		
Spectral flatness	Specification: ≤±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	EVM averaged over payload based on standard requirements (Typical) Note: - Measured at 5875/6895 MHz - Power in/out at -10 dBm - Averaged over 10 packets - 802.11ax waveform	Residual VSA EVM (full packet channel estimation):	≤-50 dB for 80 M ≤-47 dB for 160 M
		Residual VSG EVM: (full packet channel estimation):	≤-52 dB for 80 M ≤-49 dB for 160 M
Peak power	VSA power accuracy: ±0.5 dB (+20 dBm to -45 dBm)		
RMS power			
Frequency error	VSA measurement error: ≤±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		
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 dBm to -45 dBm)		
TX output spectrum			
Modulation characteristics	(For EVM better than -25 dB) VSA measurement error:≤± 0.2 ppm calibrated		
Carrier frequency tolerance			
Carrier frequency drift			
RMS EVM (EDR)	Residual VSA EVM: ≤-35 dB (+20 dBm to -30 dBm)		
Peak EVM (EDR)	Residual VSG EVM: ≤-35 dB (-10 dBm to -70 dBm)		



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