



PRODUCT BROCHURE

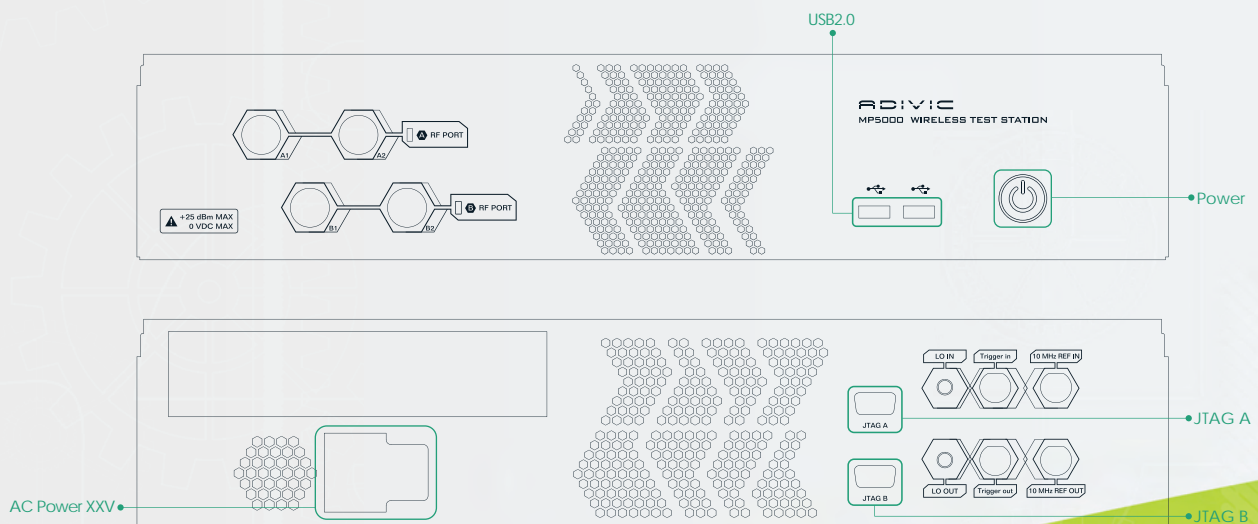
ADIVIC
— RF TEST & MEASUREMENT —

MP5000

Wireless Test Station

Features

1. Support testing on 802.11ac, 802.11/a/b/g/n standards
2. Support 120MHz VSA measurement B/W (16-bit 160MSPS ADC)
3. Support automated mass-production turnkey software
4. Easy-to-use GUI application for RD/QA purpose
5. PC open system architecture with VSA/VSG all-in-one-box
6. Signal measurement engine resides at the tester side
7. Capable of customer generated I/Q waveform file transmission



MP5000
Wireless Test Station

MP5000 General Technical Specifications

>> RF Analyzer(Note: 1)

Parameter	Specifications
Input Frequency Range	2150~2600 MHz, 4900~6000 MHz
RF Port number	2 Ports
IF bandwidth	120 MHz
Max input power	+30 dBm peak , +20 dBm average
Input power accuracy @(+20 to -75 dBm)	+/-0.75 dB (+/-0.5 dB Typ) +/-1.0 dB @ 0 °C ~ 50°C
Phase Noise	Phase noise <-100dBc: 1 KHz offset @2.4 GHz Phase noise <-95dBc: 1 KHz offset @5.8 GHz
LO Leakage (after self-calibration)	< -50 dBc
sideband image (IQ-imbalance) @after self-calibration	<-50dBc @ 2.4GHz, -10dBm <-50dBc @ 5.8GHz, -10dBm
Third order input inter-modulation distortion(IMD3)	< -70dBc@-10 dBm
Input Return loss	> 10 dB 2150~2600 MHz > 12 dB 4900~6000 MHz
ADC resolution	16 Bits
Sample rate	160 MS/s
Initial achievable accuracy	+/-50 ppb maximum (OCXO) @25 °C, after 60 minutes warm up
Temperature stability	+/-20 ppb maximum(OCXO) @0 °C ~50 °C
Aging	+/-1 ppb / day maximum (OCXO) +/-100 ppb / yr maximum (OCXO)
Operating Temperature	0 °C to 50 °C
Operating Voltage	100 V to 240 V
Warm-up time	> 30 minute

>> RF Generator(Note:1)

Parameter	Specifications
Output Frequency Range	4900~6000 MHz, 2150~2600 MHz
IF bandwidth	120 MHz
Max Output power@ CW	+10 dBm @ 2150~2600 MHz +7 dBm @ 4900 ~ 6000 MHz
Power Accuracy@(0 to -95 dBm)	+/-0.75 dB (+/- 0.5 dB Typ) +/-1.0 dB @ 0 °C ~ 50 °C
Phase Noise	Phase noise <-100 dBc: 1 KHz offset @ 2.4 GHz Phase noise <-95 dBc: 1 KHz offset @ 5.8 GHz
LO leakage(DC offset) @after self-calibration	< -50 dBc @ 2.4 GHz, -10 dBm < -50 dBc @ 5.8 GHz, -10 dBm
sideband image (IQ-imbalance) @after self-calibration	< -50 dBc @ 2.4 GHz, -10 dBm < -50 dBc @ 5.8 GHz, -10 dBm
Third order inter-modulation distortion(IMD3)	<-60dBc@-10dBm(two -13dBm Tone)
Return loss	> 10 dB 2150 ~ 2600 MHz > 12 dB 4900 ~ 6000 MHz
DAC resolution	16 Bits
Sample rate	960 MS/s
Initial achievable accuracy	+/- 50 ppb maximum (OCXO) @ 25 °C, after 60 minutes warm up
Temperature stability	+/- 20 ppb maximum (OCXO) @ 0 °C ~ 50 °C
Aging	+/-1 ppb / day maximum (OCXO) +/-100 ppb / yr maximum (OCXO)
Operating Temperature	0 °C to 50 °C
Operating Voltage	100 V to 240 V
Warm-up time	> 30 minute

**Note1: Test condition Temperature : 15 °C ~ 35°C,
Voltage : 100 V to 240 V**

MP5000

Wireless Test Station

The MP5000 wireless test station is designed to test WLAN products for both R&D/QA and manufacturing purpose. The MP5000 supports 802.11ac, and 802.11a/b/g/n standards. It equips the high performance processor architecture as well as the optimized algorithm to speed up the testing time, in addition, the MP5000 equips high quality VSA (Vector Signal Analyzer) and VSG (Vector Signal Generator) for signal measurement and signal generating. The MP5000 wireless test station provides a user friendly GUI program which allows the user to easily measure the incoming WLAN signal with only a few mouse clicks. The supported measurement items include EVM, power, frequency error, phase error, IQ imbalance...etc. The MP5000 contains a rich set of pre-generated 802.11a/b/g/n/ac waveform files to provide high quality WLAN test signals to the DUT. Moreover, a built-in waveform generator allows the user to generate arbitrary 802.11a/b/g/n/ac test signals as well. The MP5000 also supports automated mass-production turnkey software by customer request.

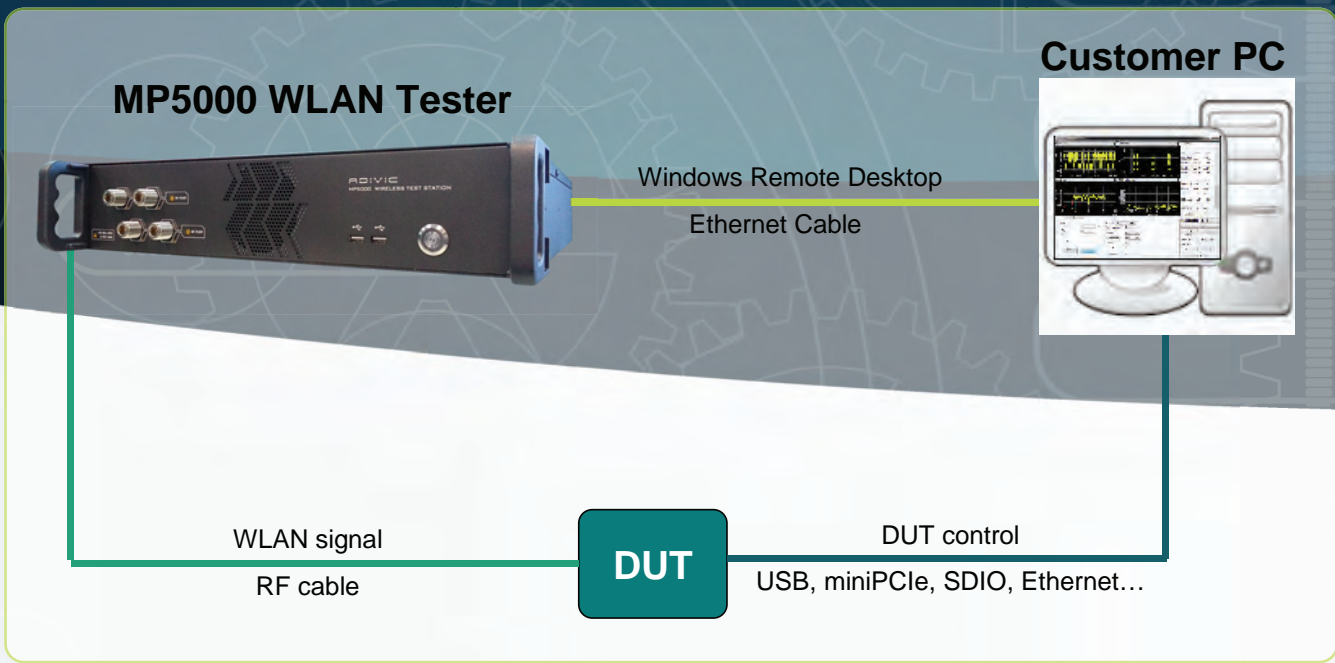


MP5000

Wireless Test Station

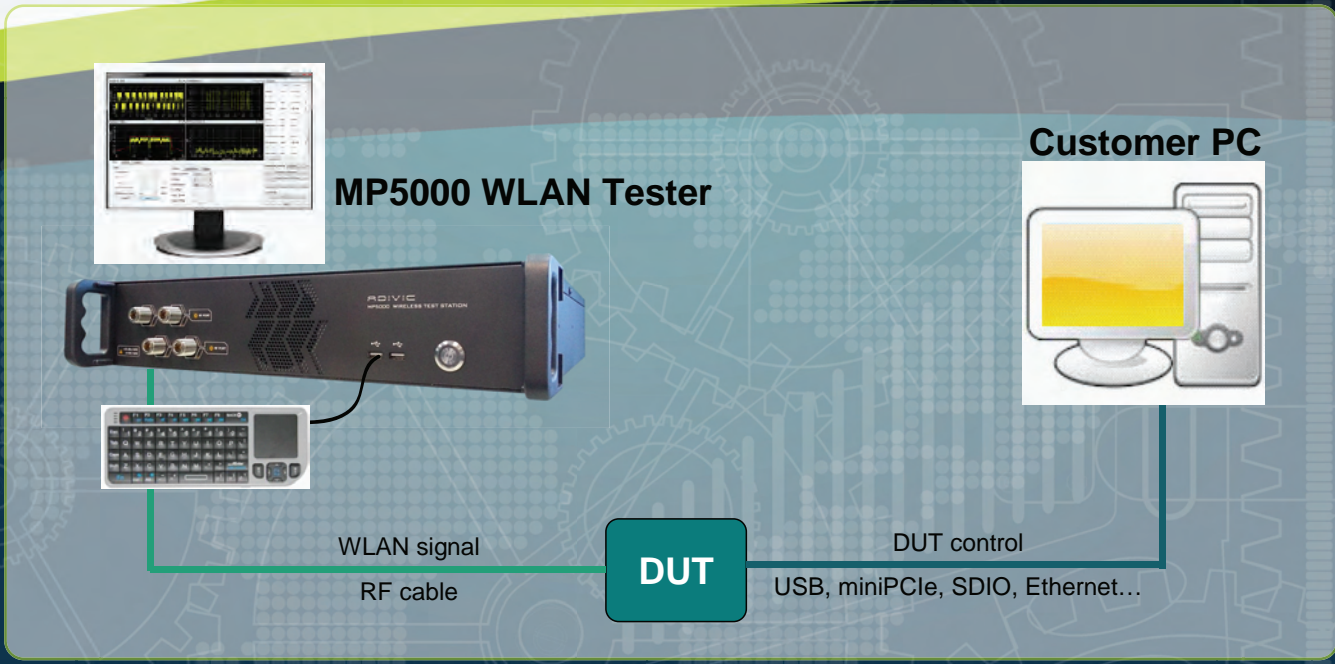
MP5000 GUI Program

MP5000 Full Test Setup for RD/QA



GUI application runs on the MP5000 Tester
 Manage the GUI application thru Windows Remote Desktop
 No need to install additional software package into your PC/NB

MP5000 Simple Test Setup for RD/QA

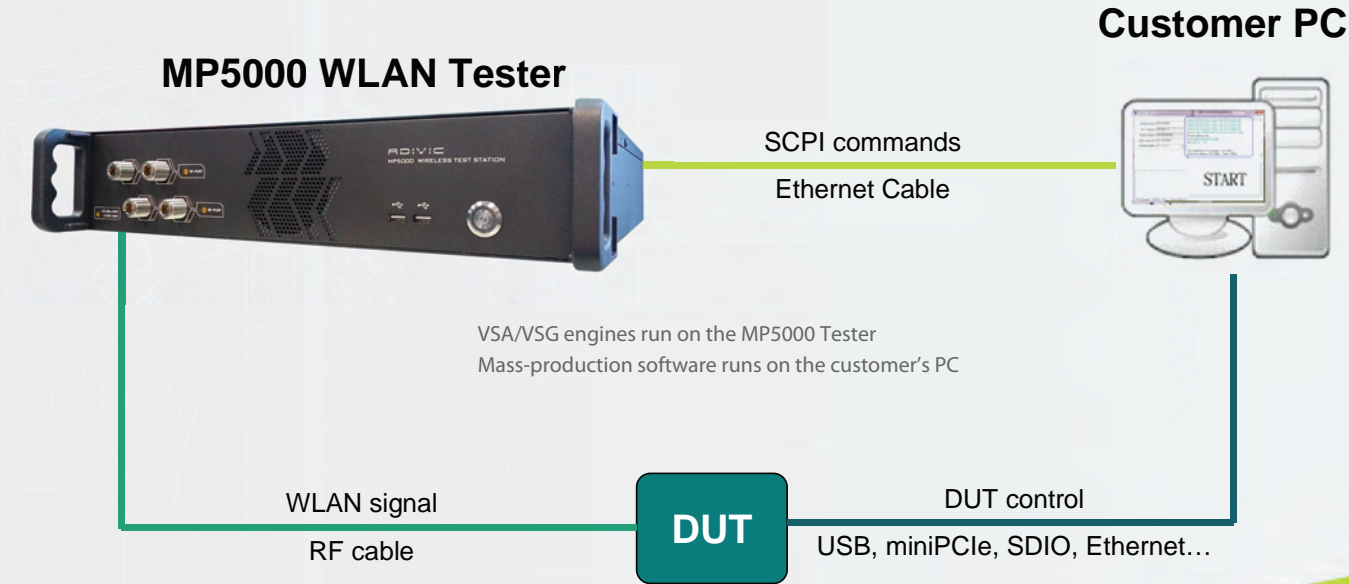


GUI application runs on the MP5000 Tester
 Manage MP5000 as a PC

MP5000

Wireless Test Station

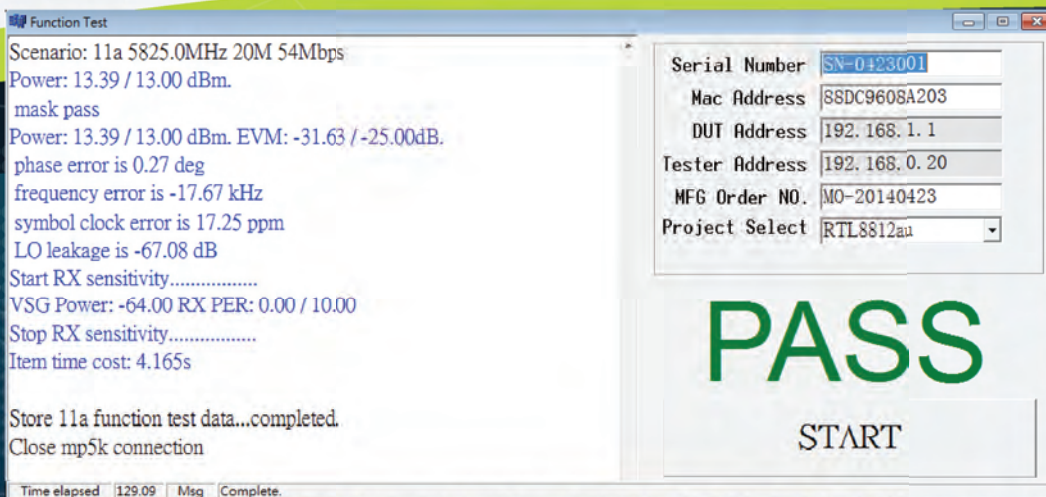
MP5000 Automated Test Setup for Mass-Production



MP5000 GUI outlook



MP5000 automated mass-production turnkey software



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