MP5000

Wireless Test Station

PRODUCT BROCHURE

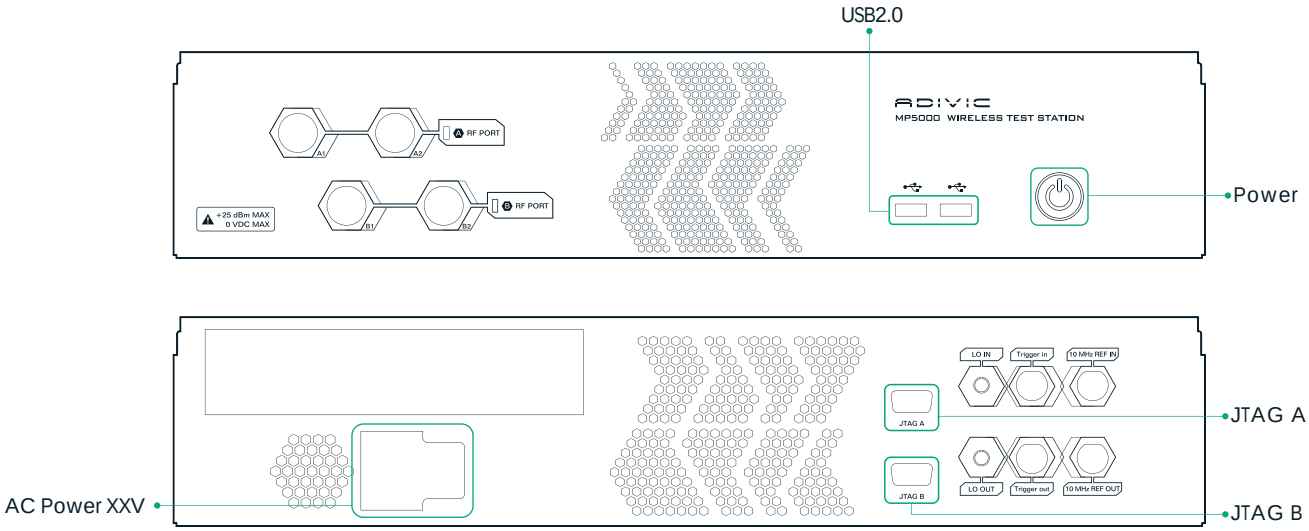
ADIVIC

RF TEST & MEASUREMENT

MP5000
Wireless Test Station

Features

1. Software Defined Radio(SDR) architecture with VSG/VSA in one box
2. Support 802.11ac, 802.11a/b/g/n standards
3. Support Bluetooth V1.x/V2.x/V3.x EDR/V4.x BLE
4. Signal measurement engine in box
5. User friendly GUI for R&D/QA applications
6. API for production automation programming
7. Turn-key production automation software support upon request



Mechanical
Dimensions : L:480mm X W:425mm X H:89mm
Weight : 12Kg

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MP5000 General Technical Specifications

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>> RF Analyzer

Parameter	Specifications
Input Frequency Range	2150~2600 MHz, 4900~6000 MHz optional 300KHz~6GHz full band
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 ℃ ~ 50℃
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 ℃, after 60 minutes warm up
Temperature stability	+/-20 ppb maximum(OCXO) @0 ℃ ~50 ℃
Aging	+/-1 ppb / day maximum (OCXO) +/-100 ppb / yr maximum (OCXO)
Operating Temperature	0 ℃ to 50 ℃
Operating Voltage	100 V to 240 V
Warm-up time	> 30 minute

>> RF Generator

Parameter	Specifications
Output Frequency Range	4900~6000 MHz, 2150~2600 MHz optional 300KHz~6GHz full band
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 ℃ ~ 50 ℃
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 ℃, after 60 minutes warm up
Temperature stability	+/- 20 ppb maximum (OCXO) @ 0 ℃ ~ 50 ℃
Aging	+/-1 ppb / day maximum (OCXO) +/-100 ppb / yr maximum (OCXO)
Operating Temperature	0 ℃ to 50 ℃
Operating Voltage	100 V to 240 V
Warm-up time	> 30 minute

*** Test condition Temperature : 15 ℃ ~ 35℃**
Voltage : 100 V to 240 V

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The MP5000 deploys state of the art Software Designed Radio (SDR) architecture that allows full flexibility with all current and future Wifi / Bluetooth standards. Utilizing SDR future firmware upgrade will allow support for LTE and other wireless standards.

The MP5000 contains high quality VSA (Vector Signal Analyzer) & VSG (Vector Signal Generator) to provide a complete and versatile test environment. A highly informative GUI thats both intuitive and user-friendly allows easy test of wi-fi & bluetooth signal with a few clicks of a mouse.

Supported measurement items include EVM, power, frequency error, IQ imbalance, 20dB Bandwidth, FM Demodulator Output…etc.

The MP5000 comes fully programmed with test waveforms for wi-fi 802.11a/b/g/n/ac & Bluetooth V.1.x/2.x/3.x EDR/4.x BLE waveform to allow immediate testing of Duts. Moreover, a built-in waveform generator utility allows users to establish arbitrary Wi-Fi/Bluetooth testing signals. Automatic mass production turnkey software is also available upon request.

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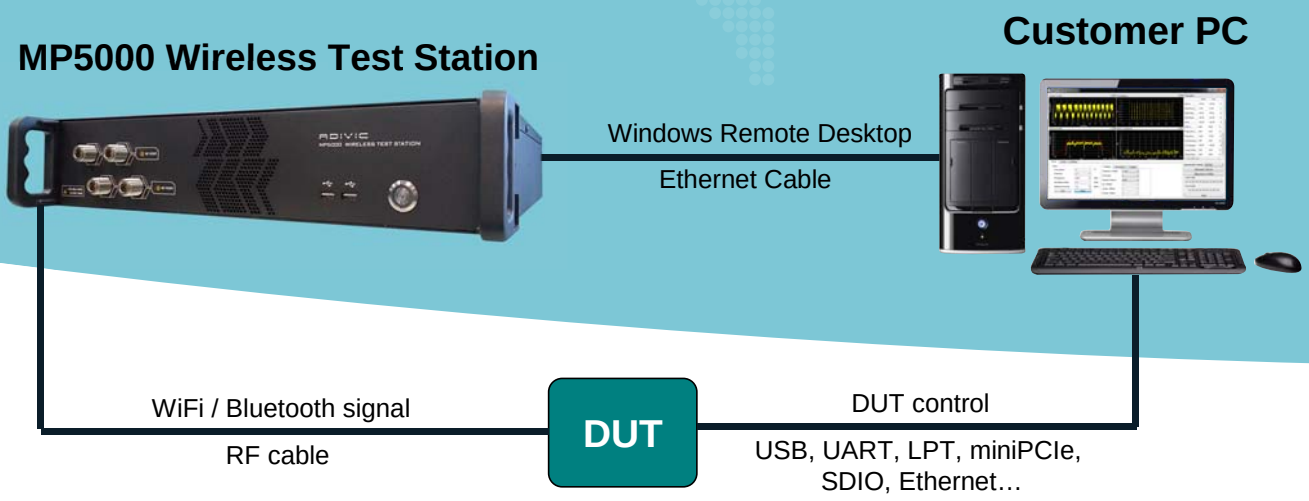
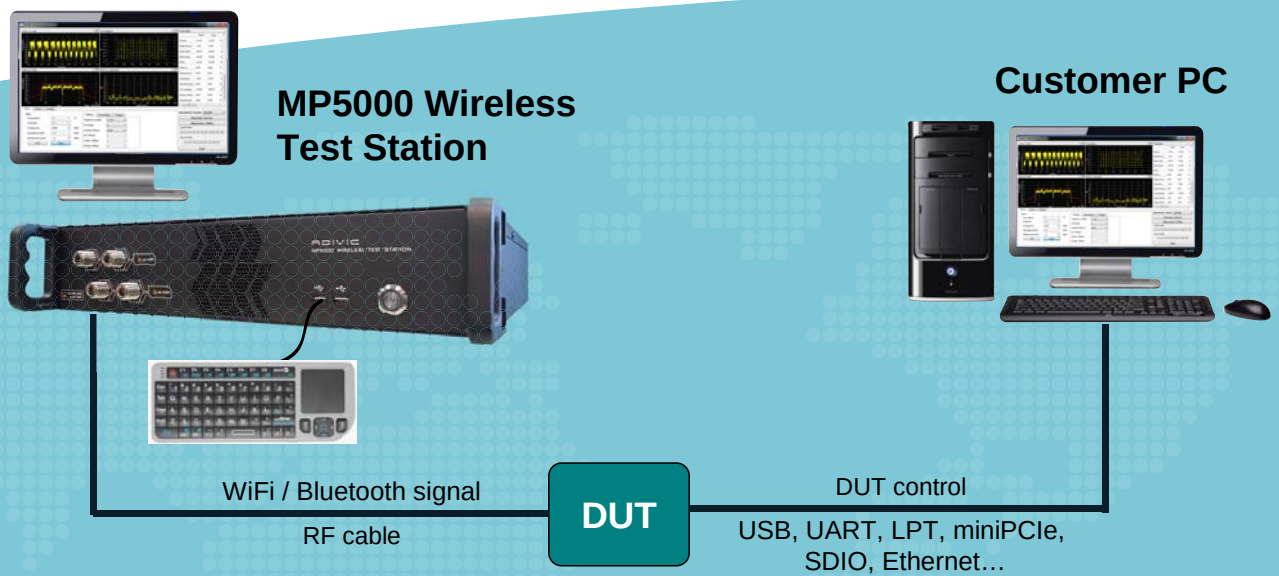
MP5000 R&D Graphic Program

MP5000 Full Test Setup for R&D/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 R&D/QA



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

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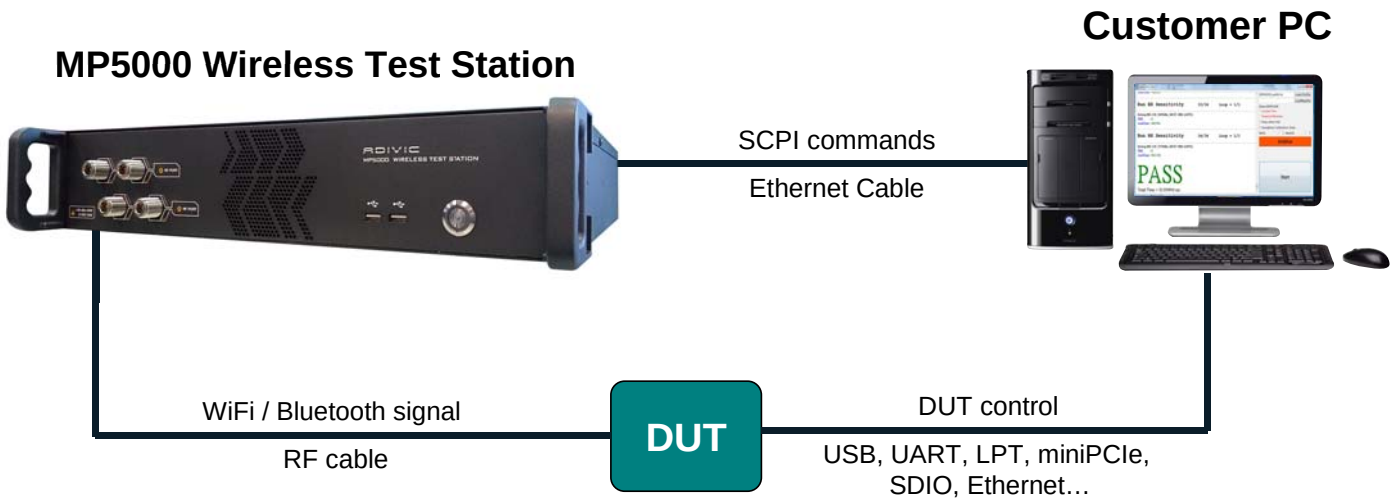
MP5000 Automated Test Setup for Mass-Production



VSA/VSG engines run on the MP5000 Tester
Mass-production software runs on the customer's PC

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MP5000 GUI outlook (Wi-Fi)

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MP5000 GUI outlook (Bluetooth)

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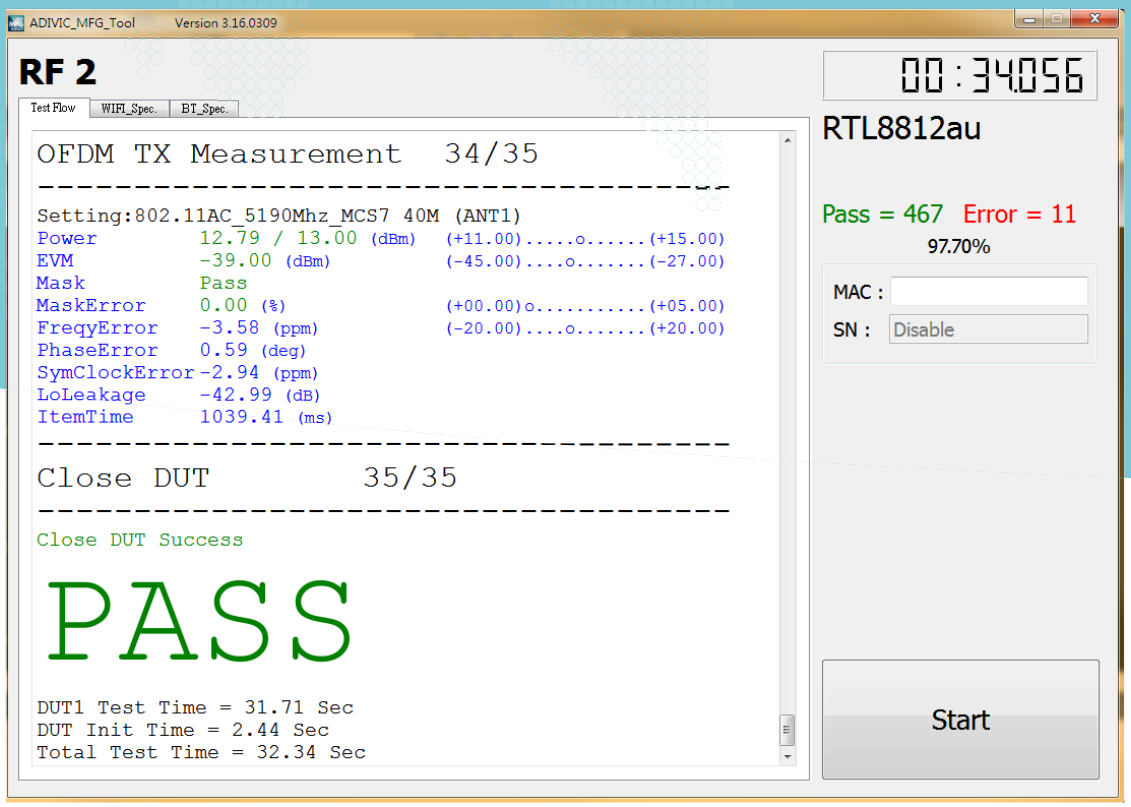
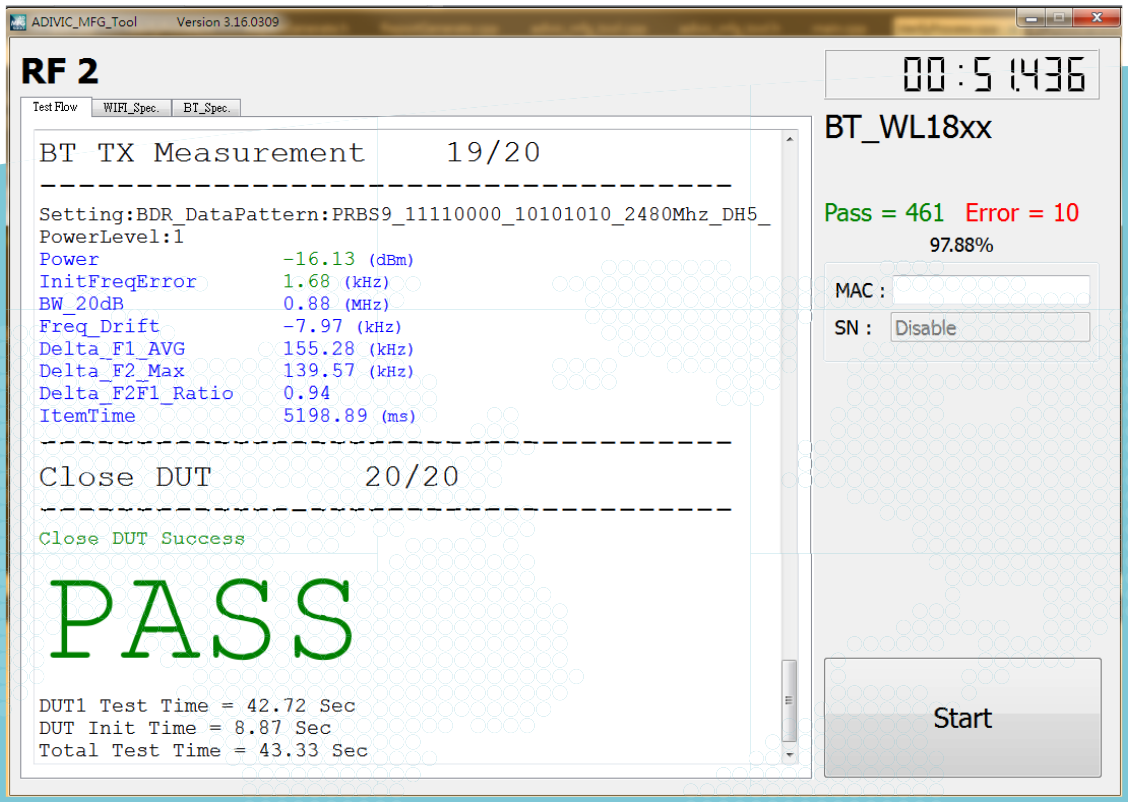
MP5000 automated mass-production turnkey software





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