

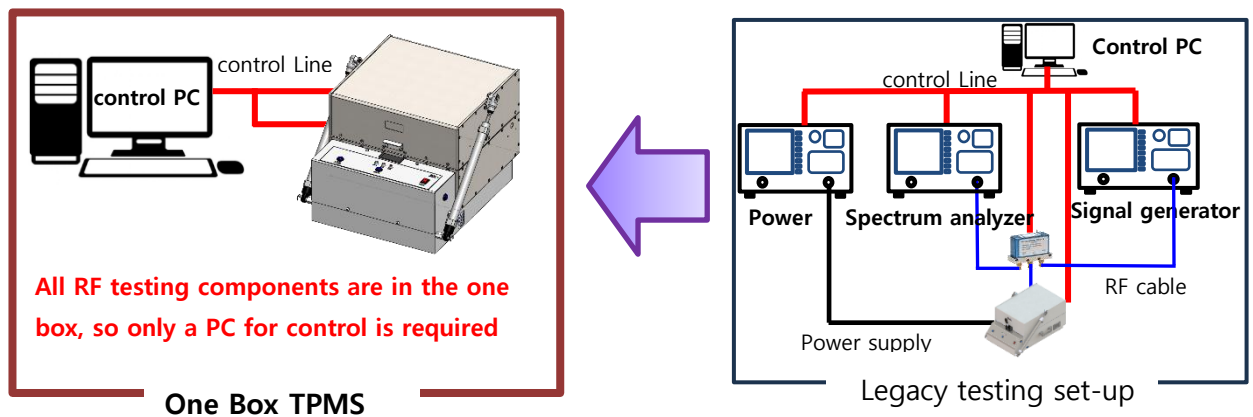
# one box TPMS Test Equipment Data sheet



## 1. Product feature

One Box TPMS test equipment from BIP Roottek is **a total solution consists of a single box with all the equipment necessary for TPMS testing** allowing test without any additional equipment. This product not only simplifies the production line and maximizes space efficiency, but is also **highly price competitive**.

- Built-in RF spectrum analyzer and signal generator
  - ⇒ By transmitting PER testing Packet from the built-in RF signal generator, DUT RX testing is possible without additional configuration.
- A very compact design and simple HW configuration
- Only power and USB connection is required to test TPMS.
- Very easy to customize to meets customer's requirements.
- Supports a customized internal fixture and a measurement antenna
- Additional IO interface panel for various test scenarios
- Excellent test repeatability and RF shielding effectiveness



## 2. Product Key Specification

### a. Standard Product size

- 410x410x320mm
- available in door or clamshell type
- The size can be modified depending on DUT testing concept

### c. Inside Signal generator key feature

- Support TPMS packet and modulation
- 40MHz of real time streaming bandwidth
- Frequency Resolution: <1Hz
- Arbitrary I/Q sample rates form 12.5KSPS to 51.2MSPS
- Amplitude range and accuracy: -90 to -30dBm  $\pm$ 1dBm
- Compatible with Windows x64-86 architecture

### b. Inside Spectrum analyzer Key Feature

- Wide dynamic range: -115dBm to 0dBm
- Resolution bandwidths of 0.1Hz to 250KHz and 5MHz
- I/Q data up to a 240KHz bandwidth
- Frequency sweeps up to 140MHz up to per second
- Compatible with Windows 7/8/10 32-bit and 64-bit operating system

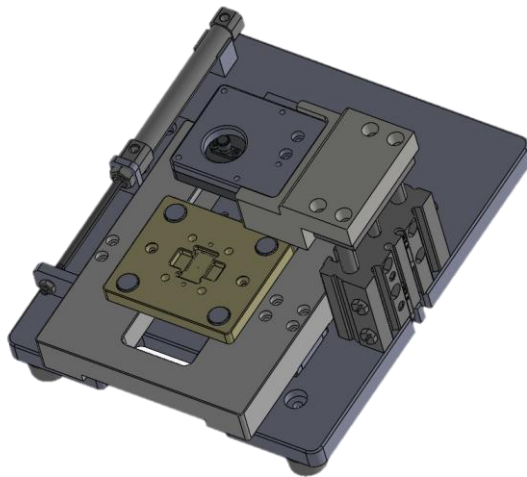
### d. RF shielding box key feature

- RF shielding effectiveness: >70dB at 0.1 to 6GHz
- Support Auto testing using Pneumatic operation
- Customizable RF shielding box size depending on DUT size
- Customizable type of lid or door operation
- built-in RF and DC connection
- option) Manual or Auto antenna testing fixture

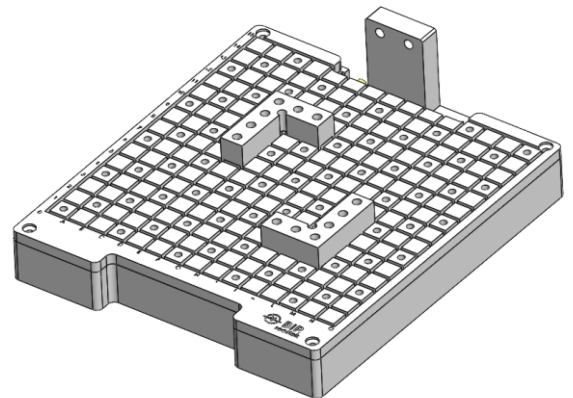
#### 4. Optional RF test fixture

1. Provide various types of RF test fixture depending on test configuration.
2. Supports Auto fixture
  - Sliding In/Out, Up/Down movement
  - Auto pogo pin connection
3. Supports radiation testing fixtures suitable for testing purpose using various antenna options
4. Supports universal type of fixture

- example of RF test fixture



< Auto test fixture example >



< manual test fixture example >

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\*\* Specification of chamber can be updated without prior notice \*\*