ESSP

Engineering Services & Solutions Provider

Agilent Technologies

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Your Partner In Test & Measurement Solutions

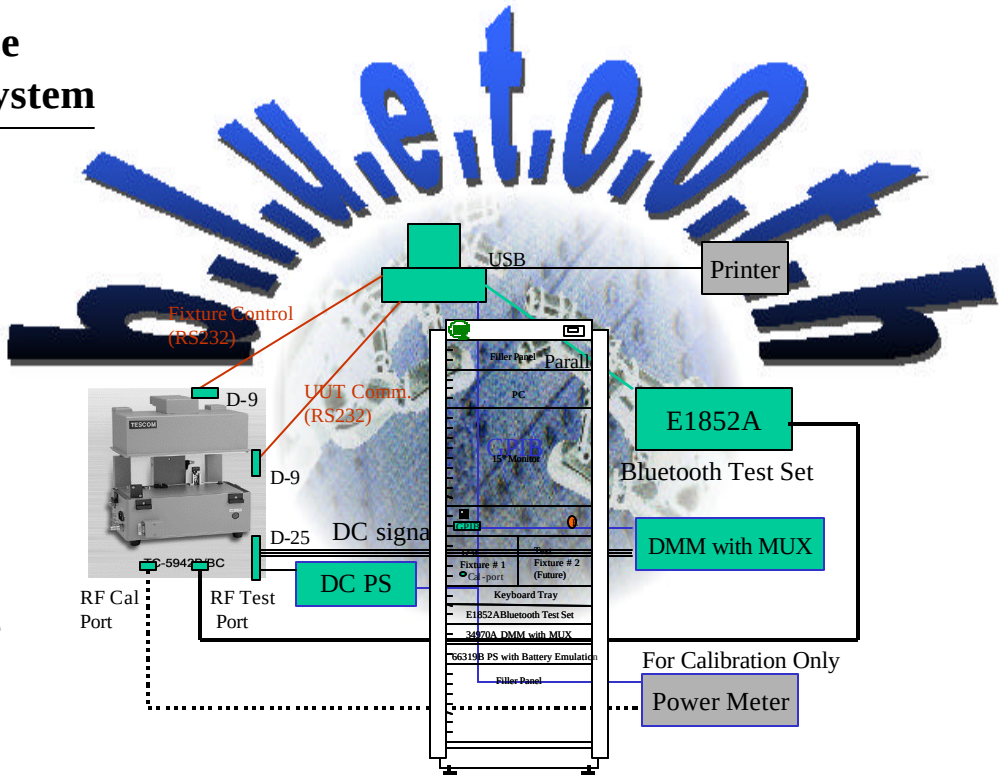
Bluetooth High-Volume Manufacturing Test System

The EB-2000 Bluetooth Test System was designed to meet the challenges faced by high-volume manufacturers of Bluetooth devices:

- **Cost-Effectiveness**
- **Time-to-Market**
- **Time-to-Volume**

The EB-2000 incorporates the Agilent Technologies E1852A Bluetooth Test Set, which establishes a link with the UUT using standard Bluetooth protocol. The test system is capable of performing typical Bluetooth RF tests as specified by the Bluetooth SIG (Spec 1.1), as well as board-level DC voltage and current measurements.

The EB-2000 includes an automated test fixture that allows over-the-air or conducted RF measurements. The RF shielding of the test fixture is critical in providing high RF isolation for successful high-volume manufacturing test.



System Specifications

Fixture

- Isolation > 70dB (below 2.5GHz)
- RS232 port for UUT control
- Full pneumatic controlled via RS232.

Software

Utilizes the ES-1000 test management software platform with test libraries provided in C and/or Agilent VEE Pro.

DC:

- 22 standard DC measurement points (expandable)
- Charging circuit and power consumption measurement using Agilent's Dual Output Power Supply with battery emulation for wireless devices testing.

RF:

1. Clock frequency test and adjustment (soft tuning by internal register value)
2. Power measurement – both average and peak power
3. Frequency and modulation (Zero, One, BS55, BS0F, SPSR & PN9(Loopback)) measurements
   - •Frequency Drift
   - •Frequency Drift Rate
   - •Frequency Deviation
   - •Frequency Offset
2. Receiver sensitivity test with BER/PER test
3. RSSI calibration for class 1 device
4. Over-the-air or conducted measurements

RF Path Calibration

- Performed using a power meter and the system Bluetooth Test Set.

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