Bluetooth® Test Set MT8852B

Supports Basic Rate, EDR and low energy measurements

/Inritsu

MT8852B

2.40 GHz to 2.5 GHz

The Anritsu MT8852B Bluetooth Test Set is the market leading RF measuring instrument for design proving and production test of a wide range of products that integrate Bluetooth technology, including; phones, headsets, computers, audio-visual and gaming products as well as modules. In production, a single key press initiates a measurement script that tests a device in less than 10 seconds.

Eight Bluetooth Basic Rate and six Bluetooth EDR transmitter and receiver test cases are supported in the MT8852B Bluetooth Test Set. EDR test cases supported include Relative Transmit Power, Carrier Frequency Stability/Modulation Accuracy, Differential Phase Encoding, Sensitivity, and BER Floor Performance.

Key Features

> Compliant with Bluetooth 1.2, 2.0 and 2.1, 3.0+HS and 4.0 core specification

> Measurements performed as defined in the Bluetooth RF Test Specification

> Qualified by Bluetooth SIG for RF measurements

> Initialization and control of test devices through USB and UART HCI control port

> Option for Bluetooth low energy measurements

> Built in support for Bluetooth low energy 2-Wire control interface

> Single script runs Basic Rate, EDR and low energy tests

> BR/EDR/low energy dirty transmitter for receiver sensitivity test cases

> Audio testing capability. 3 SCO channels with CVSD, u-Law and A-Law air interface

> Tests through antenna interface or cable connection

> Pre-programmed or user-defined test scripts

> BlueSuite Pro3 software provides graphical traces of modulation, power ramp, individual channel measurements, and receiver sensitivity search

> BlueTest 2 and CombiTest software for automated high volume production line testing

> Adaptive Frequency Hopping software option for Bluetooth 1.2 device testing

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Key Specifications

Signal Generator	
Frequency	
Frequency range	2.40 to 2.5 GHz
Frequency resolution	1 kHz
Frequency accuracy	As frequency standard ±500 Hz
Level	
Amplitude range	0 dBm to –90 dBm
Amplitude accuracy	±1 dB (0 dBm to –80 dBm)
Amplitude resolution	±0.1 dB
Output impedance	50 Ω (nominal)
Output VSWR	1.5:1 (typically 1.3) Adjacent channels 3 or higher –40 dBc
GFSK modulation	
Modulation index	Variable, 0.25 to 0.50 (125 kHz to 250 kHz)
Modulation index resolution	0.01
Modulation index accuracy	1% for Modulation Index = 0.32
Baseband filter	BT=0.5
π/4DQPSK modulation	
Modulation index accuracy	<5% RMS DEVM
Baseband filter	BT=0.4
8DPSK modulation	
Modulation index accuracy	<5% RMS DEVM
Baseband filter	BT=0.4
Measuring Receiver	
Frequency	
Frequency range	2.40 to 2.5 GHz
Frequency resolution	1 kHz
Frequency accuracy	As frequency standard ±500 Hz
Level	
Range	+22 dBm to –55 dBm average power
Power measurement accuracy	±1 dB (+20 dBm to –35 dBm)
Input VSWR	1.5:1
Damage level	+25 dBm
Resolution	0.1 dB
GFSK modulation	
Deviation measurement range	0 to 350 kHz peak
Accuracy	1% for Modulation Index = 0.32

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EUT Control Interface	
RS232 HCI commands	The EUT control interface provides RS232 HCI commands to the EUT through a standard RS-232 interface. The interface meets the requirements of the Bluetooth specification for HCI UART transport layer. A RS232 cable is supplied.
USB HCI commands	The EUT control interface provides USB HCI commands to the EUT through a standard USB interface. The interface meets the requirements of the Bluetooth specification section H:2. A USB cable is supplied.
2-Wire control	For test control of Bluetooth low energy devices the EUT control interface supports the 2-Wire specification
General Specifications	
Temperature	Operating Temperature 5 ºC to +40 ºC, humidity 20% - 75%
Power Supply	85 to 264 Volts AC
Dimensions	216.5 mm x 88 mm x 380 mm (8.5 in. x 3.5 in x 15 in.)
Weight:	<3.45 kg (7.6 lbs)

Standard Accessories

- MT8852B operation manual
- MT8852B remote programming manual
- BlueSuite software (standard version)
- RS 232 HCI control interface lead
- USB HCI control interface lead
- RS 232 cable for firmware updates
- Power cord for destination country
- Certificate of calibration
- 3.5 mm jack plugs (qty 3) Audio versions only
- BlueTest2 software

Options

Part Number	Description
MT8852B-001	Rack mount kit, single unit
MT8852B-003	Rack mount kit, side by side
MT8852B-014	Headset and Hands-free profile emulator software
MT8852B-015	Adaptive frequency hopping option
MT8852B-017	IQ data output
MT8852B-027	Bluetooth low energy measurements
MT8852B-319	Retrofit Audio to MT8852B
MT8852B-325	Retrofit EDR to MT8852B
MT8852B-330	Retrofit Basic Rate measurements to MT8852B-043
MT8852B-098	Standard calibration ANSI/NCSL Z540
MT8852B-099	Premium calibration ANSI/NCSL Z540
MX885201B	BlueSuite Pro3 software application

Accessories

2000-1613-R	Bluetooth antenna and adaptor
D41310	Soft carry bag

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