

MT8855A

2.402 MHz to 2.480 MHz

World's first test set combining Bluetooth® signalling with audio measurements.

The MT8855A is the ideal instrument for both design validation and manufacturing test. Typical Bluetooth products that can be tested with the MT8855A include stereo and mono headsets, mobile phones, digital music players, integrated and accessory car kits, and desktop speakers. Accessory microphones and speakers connect directly to the MT8855A's audio inputs and outputs to enable the development of a complete test system. Module testing is also facilitated using direct connection to the RF and audio connectors.

Key Features

- > 20 Hz to 20 kHz frequency coverage
- > THD, THD+N, SINAD, stereo phase and stereo separation measurements
- > Graphical displays: FFT, frequency response, plus THD+N vs level and frequency
- > A2DP, Headset and Hands-Free profile support for mono and stereo headset testing
- > PC-installed user interface: BlueAudio
- > Direct connection of accessory microphones and speakers



- > Under 10 seconds test time for typical headset
- > Independent audio generator and analyzer for non-Bluetooth applications
- > Included documentation and programming examples show how to use the MT8855A Class Library to create user test programs.
- > PESQ/MOS measurement option gives objective measure of overall audio quality



Quick Fact Sheet

Bluetooth® Audio Test Set MT8855A



Key Specifications

Audio Generator			
Audio generators	2 linked for left and right channels		
Freq range	20 Hz to 20 kHz		
Freq resolution	1 Hz		
Freq accuracy	0.1 Hz at 997 Hz. 100 ppm across full frequency range		
Line Output			
Line output connectors	XLR, one each for left and right (usable for both balanced and unbalanced)		
Line output level	Voltage range: 1 mV to 2V RMS into 600 Ohms or greater Plus tone off mode		
Line output resolution	1mV		
Line output level accuracy	±0.1 dB at 997 Hz into 600 Ohms or greater for voltage range 100 mV to 2V ±0.5 dB at 997 Hz into 600 Ohms or greater for voltages <100 mV		
Line output flatness	±0.5 dB at 20 Hz to 20 kHz relative to 997 Hz for voltage range 100 mV to 2V ±1 dB from 20 Hz to 20 kHz relative to 997 Hz for voltages <100 mV		
Line output distortion	≤-87 dB THD+N at 997 Hz at 200 mV to 2V output into 600 Ohm load		
Output impedance	Impedance: <120 Ohm		
Speaker Output			
Speaker output connector	4 mm socket left and right outputs		
Speaker output level	2x 1 Watt into 8 Ohm Suitable for speakers with impedance in range 4 Ohm to 32 Ohm		
Speaker output resolution	10 mV		
Speaker output accuracy	±0.2 dB at 997 Hz into 8 Ohms, 100 uW to 1 W		
Speaker output flatness	±1.0 dB from 20 Hz to 20 kHz at 100 mW relative to 997 Hz		
Speaker output distortion	<-50 dB THD+N at 997 Hz at 100 mW		
Speaker output impedance	<1 Ohm (nominal value 0.1 Ohm at room temperature)		
Audio Analyzer			
Frequency Range	20 Hz to 20 kHz		
Line Input			
Line input connection	BNC Impedance: 100k Ohms Input level: 10 mV to 4 V Measurement resolution: 1 mV		
Measurements for line input	Level:	Input levels 20 mV to 4 V:	±0.5 dB over 20 Hz to 20 kHz ±0.1 dB at 997 Hz
		Input levels 10 mV to 19 mV:	±1 dB over 20 Hz to 20 kHz ±0.2dB at 997 Hz
	THD+N:	Input level 1 V at 997 Hz:	±0.5 dB over range -80 dB to -20 dB
		Input levels 100 mV to 4 V at 997 Hz:	±1.0 dB over range -80 dB to -20 dB
	THD:	Input levels 100 mV to 4 V at 997 Hz:	±0.5 dB over range -80 dB to -20 dB
	Stereo Separation:	±1.0 dB at input level 1 V at 997 Hz over dynamic range of 80 dB	
Stereo Phase:	Mic input -90 to +270 ±1 degree ±1 sample at 997 Hz for input of 10 mV or greater, with signal to noise ratio of 30 dB or greater		

General Specifications

Temperature	Operating temperature range: +5 °C to +40 °C, Humidity: <75% non-condensing
Power Supply	85 to 264 V AC
Dimensions	230 mm W x 110 mm H x 387 mm D (9 in. W x 4.3 in. H x 15.2 in. D)
Weight:	3.5 Kg (7.7 lbs.)

Standard Accessories

Part Number	Description
13000-00280	Operation manual (Printed)
2300-295	CD with BlueAudio software and PDF operation manual
2000-1611-R	USB cable for connection of MT8855A to PC
553-525-R	XLR (f) to BNC (f) adaptor (qty 2) for Line out socket
553-526-R	BNC (m) to phono (f) (qty 4)

Options

Part Number	Description
MT8855A-001	Rack mount kit (single)
MT8855A-003	Rack mount kit (side-by-side)
MT8855A-098	Standard calibration to ANSI/NCSLI Z540-1 (Certificate of calibration only)
MT8855A-099	Premium calibration to ANSI/NCSLI Z540-1 (Certificate of calibration with test report and uncertainty data included)

Accessories

Part Number	Description
2000-1607-R	Standard microphone (including interface cable) (typical frequency response calibration data)
2000-1608-R	Calibrated microphone (including interface cable) (individually calibrated frequency response data)
2000-1612-R	Test speaker
2000-1613-R	2.4 GHz antenna and adaptor
D41310	Soft carry case

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