CRY SOUND

CRY576 Bluetooth Dongle product manual

CRY576 Bluetooth Dongle is a Bluetooth device designed for Bluetooth audio and UI testing. It is suitable for testing in R&D laboratories and production lines. It can be used not only with CRY6151B electroacoustic tester, but also as a separate module with other testing equipment. CRY576 adapts to various bluetooth solutions, with strong reliability and fast test speed. The Bluetooth connection with most solutions is less than 3 seconds Users can cooperate with CRY6151B test software or independent CRY576 tool software to control CRY576 Bluetooth Dongle to search, pair, connect, play audio and record, etc.
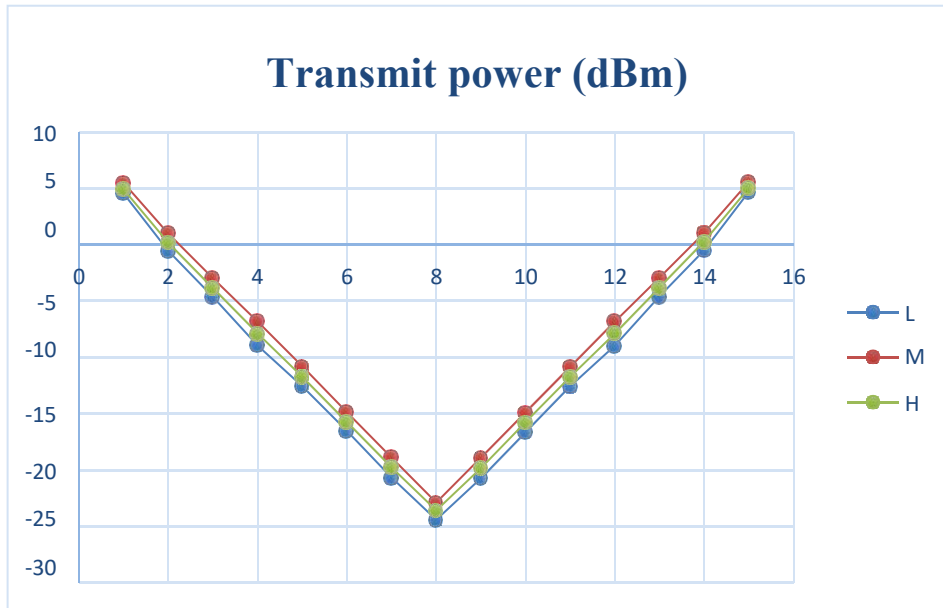
Product features

- ✓ It is suitable for various earphone schemes and has high connection test efficiency
- ✓ Support multiple codecs
- ✓ Support reading basic information of Bluetooth device
- ✓ Support spp communication
- ✓ Support two communication modes of HID and serial port
- ✓ Support up and down music, volume adjustment, pause / answer and other key tests
- ✓ Support recording, playback, listening and other tests
- ✓ Support DFU remote upgrade firmware

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Bluetooth parameters

Bluetooth version	4.2
Bluetooth protocol version	A2DP Source v1.3 HFP Audio Gateway v1.6 AVRCP Target v1.5
A2DP encoder	SBC aptX
HFP codec	mSBC CVSD
A2DP sampling rate	48kHz, 44.1kHz
USB Interface	USB Type C
RF interface	SMA
Communication mode	USB HID，USB CDC
Appearance dimension	121mm*95mm*43mm (Without antenna)

RF transmission characteristics

Transmission characteristics	Min	Type	Max	Unit
Maximum transmit power	4.7	5.28	5.74	dBm
Minimum transmit power		-24		dBm
DH1 sensitivity		-81		dBm
3DH5 sensitivity		-75		dBm

Transmit power (dBm)

Audio transmission characteristics

PS: 0dB FS output

Signal to noise ratio	Min	Type	Max	Unit
SBC 44.1kHz		100		dB
SBC 48kHz		100		dB
apt-X 44.1kHz		98		dB
apt-X 48kHz		98		dB
CVSD 8kHz		74		dB
mSBC 16kHz		86		dB

SBC Frequency Response

apt-X Frequency Response

HFP Frequency Response