




BARROT Audio Bluetooth Module

picture 图片							
Module Series 模组型号	i1188-se	i1551-s	i1107e-s	i50e	i480e	BR3551-s	
Hardware architecture 硬件架构	HCI (蓝牙协议栈需与操作系统整合, 硬件部分只是蓝牙射频以及链路管理)	HCI (蓝牙协议栈需与操作系统整合, 硬件部分只是蓝牙射频以及链路管理)	SoC (硬件集成了蓝牙协议栈的软件实现, 不占用系统资源, 开发难度低)	SoC (硬件集成了蓝牙协议栈的软件实现, 不占用系统资源, 开发难度低)	SoC (硬件集成了蓝牙协议栈的软件实现, 不占用系统资源, 开发难度低)	HCI (蓝牙协议栈需与操作系统整合, 硬件部分只是蓝牙射频以及链路管理)	
Hardware 硬件特性	Chipset 主芯片	CSR8811A12	BR8051A01	QCC3007	CSRBC5MM	CSR8670	BR8051A01
	Dimension(l*w*h) 尺寸	15mm*12mm*2.1mm	15mm*12mm*1.8mm	19.8mm*14.8mm*2.3mm	21mm*13.5mm*2.2mm	21.3mm*13.7mm*1.7mm	15mm*12mm*2.4mm
	Operation Temperature 工作温度	(-40°C to +85°C)	(-40°C to +85°C)	(-40°C to +85°C)	(-40°C to +85°C)	(-40°C to +85°C)	(-40°C to +85°C)
	Operation Voltage 工作电压	VBAT: 2.3V to 3.6V VDDIO:3.3v	VBAT:(3.0-3.6V) VDDIO:3.3V	VBAT: 3.0V to 3.6V VDDIO:3.3V	VBAT: 2.5V to 4.4V VDDIO:3.3V	VBAT: 2.5V to 4.25V VDDIO:1.8V	VBAT:3.0V to 3.6V VDDIO:3.3V
	Bluetooth voice 蓝牙语音数据接口	Uart/PCM	Uart/PCM	PCM/IIS/Analog output	PCM/IIS/Analog output	PCM/IIS/Analog output	Uart/PCM
	Bluetooth A2DP stream 蓝牙音乐数据接口	High-speed Uart	High-speed Uart	Analog output/IIS	Analog output/IIS	Analog output/IIS	High-speed Uart
	number of mic 支持Mic数目	No	NO	单mic	双mic	双mic	NO
	ROHS/REACH Compliant	Yes	Yes	Yes	Yes	Yes	Yes
	Antenna Interface 天线接口	External: PCB/SMT/IPEX	External: PCB/SMT/IPEX	External: PCB/SMT/IPEX	External: PCB/SMT/IPEX	External: PCB/SMT/IPEX	External: PCB/SMT/IPEX
	Bluetooth Spec 蓝牙版本	Bluetooth5.2 Dual-mode	Bluetooth5.2 Dual-mode	Bluetooth5.0 Dual-mode	Bluetooth5.1 and EDR	Bluetooth5.1 Dual-mode	Bluetooth5.2 Dual-mode
Bluetooth Stack 蓝牙协议栈	Bluelet 5.1	Bluelet 5.1	Bluelet 5.1	Bluelet 5.1	Bluelet 5.1	Bluelet 5.1	
Bluetooth Profile 蓝牙应用	BR/EDR:SPP,HFP,HSP,PBAP,FTP,OPP,MAP,A2DP,AVRCP,HID,DUN,PAN,IAP2,ANCS etc. BLE:GATT	BR/EDR:SPP,HFP,HSP,PBAP,FTP,OPP,MAP,A2DP,AVRCP,HID,DUN,PAN,IAP2,ANCS etc. BLE:GATT	BR/EDR:SPP,HFP,HSP,PBAP,FTP,OPP,MAP,A2DP,AVRCP,HID,DUN,PAN,IAP2,ANCS etc. BLE:GATT	BR/EDR:SPP,HFP,HSP,PBAP,FTP,OPP,MAP,A2DP,AVRCP,HID,DUN,PAN,IAP2,ANCS etc.	BR/EDR:SPP,HFP,HSP,PBAP,FTP,OPP,MAP,A2DP,AVRCP,HID,DUN,PAN,IAP2,ANCS etc. BLE:GATT	BR/EDR:SPP,HFP,HSP,PBAP,FTP,OPP,MAP,A2DP,AVRCP,HID,DUN,PAN,IAP2,ANCS etc. BLE:GATT	
MultiConnect 设备多连接	YES	YES	YES	N	Yes	YES	
Support OperateSystem 支持的操作系统	Android(latest)/Linux(5.9)/QNX/RTOS	Android(latest)/Linux(5.9)/QNX/RTOS	Android(latest)/Linux/QNX/RTOS	Full Support	Full Support	Android(latest)/Linux(5.9)/QNX/RTOS	
Security 安全等级	AES	AES	AES	AES	AES	AES	
NoiseReducte/EchoCancel 降噪/消回声	1)Software algorithm(Integrated to the linux/android system) Barrot软件算法集成 2)External Hardware DSP 硬件DSP方式	1)Software algorithm(Integrated to the linux/android system) Barrot软件算法集成 2)External Hardware DSP 硬件DSP方式	Qualcomm cVc 8th	Qualcomm cVc 6th	Qualcomm cVc 8th	1)Software algorithm(Integrated to the linux/android system) Barrot软件算法集成 2)External Hardware DSP 硬件DSP方式	
audiodata over ACL 蓝牙音乐编解码格式	SBC/AAC/APT-x II	SBC/AAC/LC3	SBC/AAC	SBC/AAC/APT-x II	SBC/AAC/APT-x II	SBC	
voice over (e)SCO 支持语音格式	NBS(8K窄带语音)/WBS (16K宽带语音)	NBS(8K窄带语音)/WBS (16K宽带语音)	NBS(8K窄带语音)/WBS (16K宽带语音)	NBS(8K窄带语音)/WBS (16K宽带语音)	NBS(8K窄带语音)/WBS (16K宽带语音)	NBS(8K窄带语音)/WBS (16K宽带语音)	
BQB Certification BQB 认证	Yes	Yes	Yes	Yes	Yes	Yes	

BARROT Audio Bluetooth Solution

Solution name 方案名称	BRS10151011 (FSQ268)	BRS30111010 (FSQ368)	BRS21030402	BRS21030463 (BR2346D)	BRS850260	BRS850261	BRS20111074	BRS860800	BRS8210650 (JSQ37)	BRS8210210	BRS8210260
方案类型	HCI+DSP Launcher	HCI+DSP Launcher+HFP	Noise reduction+TWS	Noise reduction+TWS (Small size)	Noise reduction+TWS+Spatial Audio	Noise reduction+TWS	Soundbar	Soundbar	SOC sink	SOC sink	SOC sink+WIFI Audio
Chip 主芯片	BR8051A01+BR2101	BR8051A01+BR2101	QCC3040	QCC3046	BES2600Z	BES2600IHC	CSR8811A12+SPHE8107	BR8051A01+SPA100	BR6551A01	BR2101	BES2600WM
Type 类型	Transmitter	Adapter	Receiver	Receiver	Receiver	Receiver	Receiver	Receiver	Receiver	Receiver	Receiver
Bluetooth specification 蓝牙规格	V5.2 Dual Mode	V5.2 Dual Mode	V5.2 Dual Mode	V5.2 Dual Mode	V5.3 Dual Mode	V5.3 Dual Mode	V5.2 Dual Mode	V5.2 Dual Mode	V5.0 Dual Mode	V5.2 Dual Mode	V5.3 Dual Mode
Temperature range(°C) 温度范围	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-20 to +80	-20 to +85	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-20 to +85
Operating voltage(V) 工作电压	5	5	3~4.2	3~4.2	3.1~5.5	3.1~5.5	3.3	1.8~3.3	2.5~4.3	2.97~3.63	3.1~5.5
Bluetooth class 蓝牙标准	class2	class2	class2	class2	class2	class2	class2	class2	class2	class2	class2
Range, line of sight(m) 传输距离	10	10	10	10	10	10	10	10	10	10	10
Antenna 天线	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
Profiles 蓝牙应用	HFP,A2DP,AVRCP	HFP,A2DP,AVRCP	HFP,A2DP,AVRCP,SPB,GATT	HFP,A2DP,AVRCP,SPB,GATT	SBC/AAC/UHQ/FLAC/OPUS/HWA/SSC LC3/HLDC/LDAC	SBC/AAC/UHQ/FLAC/OPUS/HWA/SSC LC3/HLDC/LDAC	HFP,A2DP,AVRCP,SPB,GATT	HFP,A2DP,AVRCP,SPB,GATT	HFP,A2DP,AVRCP,SPB,GATT	HFP,A2DP,AVRCP	HFP,A2DP,AVRCP
Multi-Connection 多连接	one-driven-two	one-driven-two	-	-	-	-	-	-	one-driven-two	one-driven-two	-
Firmware upgrade 固件升级	-	-	OTA	OTA	OTA	OTA	UART	UART	UART	UART	UART/OTA
Key Feature 关键特性	low latency, one-driven-two, high-quality	low latency, one-driven-two, high-quality	low latency, one-driven-two, high-quality	low latency, one-driven-two, high-quality	low latency, high-quality	low latency, high-quality	low latency, one-driven-two, high-quality	low latency, high-quality	low latency, one-driven-two, high-quality	low latency, one-driven-two, high-quality	low latency, high-quality

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