

BARROT Automotive Bluetooth & Wi-Fi5 Combo Solution



图片 Picture	模组型号 Module Series	硬件特性 Hardware														软件特性 Software									
		主芯片 Chip	尺寸 Dimension(L*W*H)	工作电压 Operating Voltage(V)	规格 Others	操作温度 Operation Temperature	射频规格 RF Spec	双频 DualBand	Wlan Mac数量 Wlan Mac	天线接口 Antenna Interface	wifi传输层 WiFi Host IP	蓝牙物理传输层 BT Host IP	蓝牙语音数据接口 Bluetooth voice	蓝牙音乐数据接口 Bluetooth A2DP stream	ROHS/ REACH Compliant	蓝牙版本 Bluetooth Spec	蓝牙角色 Bluetooth Role	设备多连接 MultiConnect	降噪/消回声 NoiseReducer/ EchoCancel	协议版本 IEEE802.11	驱动支持的操作系统 Support OperateSystem	角色共存 DualMac/MultiRole	角色支持 Support role	应用场景 Application	BT&WiFi共存 Co-existence
	i1423-s	QCA1023	16mm*16mm*2.4mm	VBAT: 3.15V to 3.45V VDDIO:1.8V/3.3V	Industry	-40°C to +85°C	Dual Band 2.4 or 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	SDIOv3.0/v2.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth4.2 Module BQB: Bluetooth4.2	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	No	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1410-si	QCA1023	17mm*17mm*2.6mm	VBAT: 3.15V to 3.45V VDDIO:1.8V/3.3V	Industry	-40°C to +85°C	Dual Band 2.4 or 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX Internal: IPEX Seat	SDIOv3.0/v2.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth4.2 Module BQB: Bluetooth4.2	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	No	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1465-sp	QCA6574A-1	23.4mm*19.4mm*2.3mm	VBAT: 3.15V to 3.45V VDDIO:1.8V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4 or 5GHz 2x2 MIMO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	Lowpower PCIeV3.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.0 Module BQB: Bluetooth5.0	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P/2*AP	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1465-s	QCA6574A-3	23.4mm*19.4mm*2.4mm	VBAT: 3.15V to 3.45V VDDIO:1.8V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4 or 5GHz 2x2 MIMO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	SDIOv3.0/v2.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.0 Module BQB: Bluetooth5.0	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P/2*AP	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1559-spu1	CYW88459	22.7mm*20.2mm*2.4mm	VBAT: 3.0V to 4.8V VDDIO:3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4G and 5GHz 2x2 MIMO	2.4G/5G	2-mac	External: PCB/SMT/IPEX	Lowpower PCIeV3.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.4 Module BQB: Bluetooth5.1	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P/2*AP	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1449-sp	CYW88459	23.4mm*19.4mm*2.4mm	VBAT: 3.0V to 4.8V VDDIO:3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4G and 5GHz 2x2 MIMO	2.4G/5G	2-mac	External: PCB/SMT/IPEX	Lowpower PCIeV3.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.4 Module BQB: Bluetooth5.1	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P/2*AP	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1587-sf1	NXP88W8987	16mm*16mm*2.4mm	VBAT: 1.1V/1.8V/2.2V VDDIO:1.8V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4 or 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT	SDIOv3.0/v2.0	Highspeed UART with hardware flow control	UART/PCM	High-speed UART	Yes	IC BQB: Bluetooth5.2 Module BQB:-	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	No	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i84	CYW88335	16mm*16mm*2.4mm	VBAT: 3.0V to 4.8V VDDIO:1.8V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4G and 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX/ 1*Antenna	SDIOv3.0/v2.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.2 Module BQB: Bluetooth5.0	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	No	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1433-sp	CYW88373	22mm*22mm*2.3mm	VBAT: 3.13V to 3.5V VDDIO:1.8V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4G and 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	SDIOv3.0/v2.0 Lowpower PCIeV3.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.4 Module BQB: Bluetooth5.0	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1433-spu1	CYW88373	22mm*22mm*2.3mm	VBAT: 3.13V to 3.5V VDDIO:1.8V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4G and 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	SDIOv3.0/v2.0 Lowpower PCIeV3.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.4 Module BQB: Bluetooth5.0	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1495-sp	QCA6595	23mm*23mm*2.9mm	VBAT: 1.8V/2.2V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4 and 5GHz 1x1 SISO +2x2 MIMO	2.4G/5G	2-mac	External: PCB/SMT/IPEX	Lowpower PCIeV3.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.2 Module BQB: Bluetooth5.0	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P/2*AP	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1421-sw	RTL8821CS	16mm*16mm*2.6mm	VBAT: 3.0V to 3.6V VDDIO:1.8V/3.3V	Industry	-40°C to +85°C	Dual Band 2.4G and 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	SDIOv3.0/v2.0	Highspeed UART with hardware flow control	UART/PCM/IIS	High-speed UART	Yes	IC BQB: Bluetooth5.4 Module BQB: Bluetooth5.3	Central/Peripheral	Yes	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	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	Yes(模组Firmware控制)
	i1421-su1	RTL8821CS	10mm*10mm*2.6mm	VBAT: 3.0V to 3.6V VDDIO:1.8V/3.3V	Industry	-40°C to +85°C	Dual Band 2.4G and 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	SDIOv3.0/v2.0	-	-	-	Yes	-	-	-	-	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	-
	i1437-st	CYW88373	10mm*10mm*1.9mm	VBAT: 3.13V to 3.5V VDDIO:1.8V/3.3V	AECQ-100 Grade3	-40°C to +85°C	Dual Band 2.4G and 5GHz 1x1 SISO	2.4G/5G	1-mac	External: PCB/SMT/IPEX	SDIOv3.0/v2.0	-	-	-	Yes	-	-	-	-	IEEE802.11 a/b/g/n/ac	Android/Linux/QNX	Yes	STA/AP/P2P	Hicar/CarLife/Carplay/Hospot/Station/Android auto/Carlink	-

* Barrot 蓝牙协议栈支持的Profiles: BR/EDR:SPP,HFP,HSP,PBAP,MAP,A2DP,AVRCP,HID,DUN,PAN,FTP,OPP BLE:GATT,ANCS等