






意天电子产品介绍

Ampak Module brief introduction

接口	Module P/N	Module Size (MM)	Broadcom Chipset	WIFI实测吞吐量 Mbps	信道带宽 MHZ	WIFI(802.11ac/a/b/g/n)			BT 4.0/1 BT4.0 BLE	FM RX	GPS +GLNA S	NFC	支持的操作系统
						11ac (5G)	11a (5G)	11b/g/n (2.4G)					
邮票孔封装SDIO 2.0&3.0 (WIFI) + UART (BT,GPS ,FM) + I2C (NFC)	AP6214A (含晶振,功耗低)	7*7*1.5	43438A1	40Mbps	HT20			●	● (BT4. 1)				Android/RTOS/Linux (手表, 运动DV)
	AP6181	12*12*1.5	43362	36Mbps	HT20			●					Android/Linux/RTOS
	AP6210	12*12*1.5	43362+ 20710	36Mbps	HT20			●	● (BT4. 0)				Android/Linux
	AP6212	12*12*1.5	43438A0	40Mbps	HT20			●	● (BT4. 1)	●			Win/Android/Linux
	AP6212SD (车规, 宽温, TS16949)	12*12*1.5	43438A1	40Mbps	HT20			●	● (BT4. 1)	●			Win/Android/RTOS (车机前装, 后装)
	AP6212A (低功耗) (Idle=60uA,TX=230mA)	12*12*1.5	43438A1	40Mbps	HT20			●	● (BT4. 1)	●			Win/Android/RTOS (超低功耗,IPC,可视门)
	AP6202 (超低功耗) (Idle=30uA,TX=30mA)	12*12*1.5	43012	40Mbps	HT20			●	● (BT4. 2)				Win/Android/RTOS (超低功耗,IPC,可视门)
	AP6236	12*12*1.5	43436B0	40Mbps	HT20			●	● (BT4. 2)				Win/Android/Linux
	AP6251U	12*12*1.5	43362+ UBX-G7020	36Mbps	HT20			●			●		RTOS/uCOS
	AP6330	12*12*1.5	4330X	36Mbps	HT20		●	●	● (BT4. 0)	●			Android/Linux
	AP6452	12*12*1.5	43438+ 4752	36Mbps	HT20			●	● (BT4. 1)	●	●		Win/ >Android5.0/Linux
	AP6474	12*12*1.5	43438+ 4774	36Mbps	HT20			●	● (BT4. 1)	●	●		RTOS/Linux/Android (穿戴, Sensor Hub)
	AP6441	12*12*1.5	43341	70Mbps	HT20/40		●	●	● (BT4. 0)	●		●	Android
	AP6234	12*12*1.5	43340	70Mbps	HT20/40		●	●	● (BT4. 0)				Win10/Android
	AP6233F&AP6232F (加PA,传输150m)	12*12*1.5	4334+PA	70Mbps	HT20/40		● (OPTION)	●	● (BT4. 0)				Android (无人机, 安防监控等领域)
AP6335	12*12*1.5	4339	150Mbps	HT20/40/80 SDIO3.0	●	●	●	● (BT4. 0)	●			Android	
AP6255	12*12*1.5	43455	200Mbps	HT20/40/80 SDIO3.0	●	●	●	● (BT4. 2)				Win10/Android	
邮票孔封装SDIO 3.0 (WIFI) + UART (BT)	AP62X2 (2T2R)	13*15*1.5	43241	150Mbps	HT20/40 SDIO3.0		●	●	● (BT4. 0)	●			Android/Linux
	AP6354 (2T2R)	13*15*1.5	4354	>400Mbps	HT/20/40/80	●	●	●	● (BT4. 1)	●			Android/Linux
	AP6356S (2T2R)	13*15*1.5	4356	>400Mbps	HT/20/40/80	●	●	●	● (BT4. 1)	●			Android/Linux
	AP6359S (2T2R+ 1 BT) AP6359SA (2T2R)	13*15*1.5	4359	>200Mbps *2	HT/20/40/80 SDIO3.0	●	●	●	● (BT4. 2)	●			Android/Linux Dual MAC 两个ac同时工作,同时AP/STA模式
High Gain 高增益	AP6359H (2T2R + 1BT) (+PA,500m传输)	17*17*1.5	4349	>200Mbps *2	HT/20/40/80 SDIO3.0	●	●	●	●	●			Android/Linux Dual MAC 无人机, 中继
WIFI/BT USB接口	AP6242(2T2R)	27*18*2.55	43242	150Mbps	HT/20/40		●	●	● (BT4. 0)				Android 主攻TV,Mstar
	AP6269LV(2T2R) BT走USB	27*18*2.55	43569	>400Mbps	HT/20/40/80	●	●	●	● (BT4. 1)				Android 主攻TV,Mstar
	AP62569_I (2T2R) BT走UART	27*18*2.55	43569	>400Mbps	HT/20/40/80	●	●	●	● (BT4. 1)				Android 主攻TV,Mstar
	AP62X8 (2T2R)	27*18*2.55	4358	>400Mbps	HT/20/40/80	●	●	●	● (BT4. 1)				Android 主攻TV,Mstar
接口	型号 P/N	模组尺寸 SIZE	芯片型号 Broadcom chip	WIFI实测吞吐量 Mbps	信道带宽 MHZ	WIFI(802.11ac/a/b/g/n)			BT 4.0/1 BT4.0 BLE	WIFI 接口 SDIO	WIFI 接口 PCIe	蓝牙接口 USB/UART	
M.2 NGFF standard Solder Down 封装有FCC, CE ID	AP6212SD(1T1R)	12*16*1.5	43438	45Mbps	HT20			●	●	●			
	AP6234SD(1T1R)	12*16*1.5	43340	70Mbps	HT20/HT40		●	●	●	●			
	AP6255SDS(1T1R)	12*16*1.5	43455	150Mbps	HT20/40/80	●	●	●	●	●			
	AP6255SDP(1T1R)	12*16*1.5	43455	150Mbps	HT20/40/80	●	●	●	●		●		
	AP62X2SD (2T2R)	12*16*1.5	43241	100Mbps	HT20/40/80		●	●	●	●			
	AP6356SDPR (2T2R)	12*16*1.5	4356	>400Mbps	HT20/40/80	●	●	●	●		●	UART	

及安规认证	AP6356SDSR (2T2R)	12*16*1.5	4356	>400Mbps	HT20/40/80	●	●	●	●	●	UART	内含晶振, 功率电感, 天线座子
-------	----------------------	-----------	------	----------	------------	---	---	---	---	---	------	------------------



代理商：意天电子(Yippee)

Contact: 蒋先生/13922871423 / QQ:1641781774

Email: Justin_jiang@yippee-elec.com

Feature特点:

1. 模块均采用邮票孔形式，易设计，易生产，易焊接调试
2. 所有SIZE为12mm*12mm大小模块，都是PIN-TO-PIN兼容，只需要一版硬件设计，和一版软件即可更换不同模块
3. 所有SIZE为13mm*15mm大小模块，都是PIN-TO-PIN兼容，只需要一版硬件设计，和一版软件即可更换不同模块
4. WIFI支持WIFI Direct，Miracast,AP/STATION
5. Bluetooth可实现BT4.2(Mesh)/BT4.1/BT4.0(BLE)，及向下BT3.0/2.1+EDR/2.0兼容
6. GPS可同时支持GPS，GLONASS两种模式，将来也会同时兼容北斗三种模式
7. NFC采用Android系统自带的NFC stack
8. 支持WINDOW / Android4.x-5.x / Linux驱动

IOT-WICED –MCU+WIFI/BT & SOC，可以提供微信Airkiss协议												
Model name	SIZE (MM)	Broadcom Chip	信道带宽 MHZ	WIFI VERSION		BT4.0	MCU STM32	SPI	I2C/ I2S	UART	USB	GPIO
				802.11a (5G)	11b/g/n (2.4G)							
WSDB-750GN	16*32*3.1	BCM43362	HT20		●		ST-411 M4, 100M 128KB+ 512KB	●	●	●	●	●
WSDB-751GN	16*32*3.1	BCM43438	HT20		●	●	ST-411	●	●	●	●	●
WSDB-753GN	16*32*3.1	BCM43340	HT20/HT40	●	●		ST-411	●	●	●	●	●
WSDB-762GN	16*32*3.1	BCM43340	HT20/HT40	●	●	●	ST-411	●	●	●	●	●
AP71436	16*32*3.1	43436 (SOC)	HT20		●		SOC M4, 100M 128KB RAM	●	●	●	●	●
蓝牙产品												
Module P/N	SIZE (MM)	Broadcom Chip	Interface /接口	WIFI 11a/b/g /n	BT/ BLE	GPS/ GNASS	NFC	Function /功能	Application/ 应用			
AP6210B	12*12*1.5	BCM20710	UART		●双模 BT4.0			双模单蓝牙	不含协议栈			
AP6105	12*12*1.5	BCM20705	UART/USB/SPI FLASH		●双模 BT4.1			双模单蓝牙	不含协议栈，可以外接SPI Flash			
AP6110U	12*12*1.5	ST(M0)+ 20710	UART/GPIO		●双模 BT4.0			64KB Flash+ 8KB SRAM M0+BT双模	BLE/SPP，支持MCU 应用开发			
ELET114A	27*13*2	ST(M0)+ 20710	UART/GPIO		●双模 BT4.0			64KB Flash+ 8KB SRAM M0+BT双模	BLE/SPP，支持MCU 应用开发			
WMCB-769B_I(-20°C~85°C) & WMCB-769B_H(-20°C~120°C)	11*11*1.5	BCM20736	UART/GPIO		●BLE 单模 BT4.0			SOC, M3+BLE	BLE透传，1对8， 主从模式，Mesh灯控市场			
ELET12AA	27*13*2	BCM20736	UART/GPIO		●BLE 单模 BT4.0			SOC, M3+BLE	BLE透传，1对8， 主从模式，Mesh灯控市场			
ELET115A	27*13*2	ST(M4)+ 20710	UART/PCM/I2S/GPIO		●双模 BT4.0			M4+双模BT 128KBSRM+512 KB FLASH	A2DP主从，HSP/SPP/BLE/ HID，OTA升级			
ELET116A	27*13*2	BCM20707	UART/USB/SPI flash PCM/GPIO		●双模 BLE BT4.1			SOC SRAM, M3+BLE	A2DP主从，HSP/SPP/BLE/ HID，OTA升级 BLE透传，支持Homkit， 含Mesh协议			

PT71600A_A (32bit MCU+BT4.2,内含 16M,32KHz晶体, 4M Flash+陶 瓷天线)	16*16*1.5 (38 PIN)		30GPIO/UART/MIC /ADC/I2C		● BT4. 2			32bitMCU+ BT4. 2, 4Mflash+Mono Mi2c+30GPIO	BLE HID, DATA RATE=2Mbps 蓝牙语音识别遥控器
PT72600A_AS (32bit MCU+BT4.2,内含 16M,32KHz晶体, 4M Flash+6 轴sensor+陶瓷天线)	16*16*1.5		30GPIO/UART/MIC /ADC/I2C (可以接6/9轴Sensor)		● BT4. 2			M4+BT4. 2, 2Mflash+384K B SRAM+MonoMic +30GPIO	BLE HID, DATA RATE=2Mbps 空中飞鼠, 游戏体感遥控 器, 3D眼镜

GPRS,GPS/Glonass/北斗, NFC ,云狗									
Module P/N	SIZE (MM)	Broadcom Chip	Interface /接口	GPRS	GPS/ GNASS	北斗	NFC	Function /功能	Application/ 应用
AP6174 (含TCXO,LNA,SAW)	8*8*1.5	BCM47748	SPI/UART/GPIO		●	●		M4+GPS+ SENSOR HUB 1MB SRAM	穿戴/Wearables, 运动DV, Sensor辅助定位, 省电
VS1600A	12*12*1.5		UART/SPI/I2C						蓝牙语音遥控器, 支持 CAR
VS1531A1	12*16*1.5	BCM47531A1	UART		●	●		GPS+GLNS+北 斗	穿戴, 定位手表, 智能家居
VS1795P1	12*16*1.5	BCM20797S	I2C				●	单NFC模块	P2P, Reader/Writer , 卡模拟支付
VS1797S(M)	12*16*1.5 (M)12*12* 1.5	BCM20797S	I2C				●	单NFC模块	P2P, Reader/Writer , 卡模拟支付, 5CM传输距离
YP-2532G(云狗)		MTK6260+ UBLX7020	UART	●	●			云狗	云狗, 跟踪, 拍照, 后台, 行车记录仪
BCM4752IFBG	5*5		UART		●			单GPS	平板, 手机
BCM20795P1KML1G	4*4.5*0.9		I2C				●	单NFC	P2P, Reader/Writer , 卡模拟支付