LIFE STYLE PANEL PTY LTD

Operational description

The RF module is AP6255. It is a low-cost and low-power consumption module which has WiFi and Bluetooth functionalities. The highly integrated module makes the possibilities of web browsing, VoIP, Bluetooth headsets applications. With seamless roaming capabilities and advanced security, also could interact with different vendors' 802.11a/b/g/n/ac Access Points in the wireless LAN.
The wireless module complies with IEEE 802.11 a/b/g/n/ac standard and it can achieve up to a speed of 433.3Mbps with single stream in 802.11ac draft to connect the wireless LAN. The integrated module provides SDIO interface for WiFi, UART / PCM interface for Bluetooth.
This compact module is a total solution for a combination of WiFi + BT technologies.

Note: The WLAN and BT are time-division working mode, simultaneous transmission is not supported. The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. Then it will scan the available radio signals. If this signal is connected before, it will be automatically connected, otherwise manual connections will be necessary.

Features:
Chipset: Amlogic S912
DDR4: 2GB
Flash: 16GB eMMC Flash
OS: Android 6.0
CPU: Octa-core 64-bit ARM® Cortex™-A53 up to 2.0GHz
GPU: 750Mhz+ ARM Mali-T820MP3 GPUHW UHD H.265/VP9 60fps 10-bit video decoder and low latency1080p 60fps video encoder
Video Decoding:
  - VP9-10 Profile
  -2 up to 4Kx2K@60fps
  - H.265 HEVC MP-10@L5.1 up to 4Kx2K@60fps
  - H.264 AVC HP@L5.1 up to 4Kx2K@30fps, H.264 MVC up to 1080p@60fps etc.
HDR10 processing, REC709/BT2020 processing
Support Google Play store, DLNA, Kodi, WiFi Display(Miracast), Airplay
Codec: HD MPEG1/2/4, RM/RMVB(8/9/10), H.264, H.265,HD AVC/VC-1,Xvid/DivX3/4/5/6, Divx HD, Divx Plus HD, RealVideo8/9/10
Video Format: Avi, Rm, Rmvb, MKV, AVI, ISO, VOB, DAT, MPG/MPEG, MP4, MOV, TS, XVID, WMV, ASF, FLV
Audio Format: MP3, WMA, AAC, WAV, OGG, AC3, MIDI, DTS, FLAC, APE, ALAC, M4A
Photo Format: HD JPEG/BMP/GIF/PNG/TIFF
APPs: Skype, Netflix,Twitter, Youtube ect.
Power supply: DC 5V(2A)
RF Module: AP255

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BT Specs:

Items	Values
Frequency Range	2402 MHz - 2480 MHz
Maximum RF Power Output	BLE: 8dBm (±1 dB)
	EDR: -5dBm (±1 dB)
Modulation	EDR: GFSK, DPSK, DQPSK
	BLE: GFSK
Number or channels	EDR: 79 channels
	BLE: 40 channel
Channel spacing	EDR: 1MHz
	BLE: 2MHz
Antenna gain	2dBi
Version	BT V4.1

WiFi Specs:

Frequency range	2412 MHz to 2462 MHz,		
IEEE	802.11b,802.11g,802.11nHT20		
Output Power	802.11b: 15 dBm (±1.5 dB)		
	802.11g: 14 dBm (±1.5 dB)		
	802.11n-HT20: 10 dBm (±1.5 dB)		
Antenna gain	2dBi		
Modulation	802.11b : DQPSK, DBPSK, CCK		
	802.11g/n : 64-QAM,16-QAM, QPSK, BPSK		
Number of channels	11 (See Note 1)		
Channel spacing	5MHz		
Support	hotspot	Peer-to-Peer	DFS detection
	Y	Y	N/A
Note 1: The Wlan channel 12/13 has been closed by software			

Frequency range	5180 MHz to 5240 MHz,
	5745 MHz to 5825 MHz
IEEE	802.11a/n/ac
Output Power	802.11a: 17 dBm (±1.5 dB)
	802.11n-HT20: 14 dBm (±1.5 dB)
	802.11n-HT40: 11 dBm (±1.5 dB)
	802.11ac-VHT20 : 14 dBm (±1.5 dB)
	802.11ac-VHT40 : 11 dBm (±1.5 dB)
	802.11 ac-VHT80 : 10 dBm (±1.5 dB)
Antenna gain	2dBi
Modulation	802.11a/n : 64-QAM,16-QAM, QPSK, BPSK
	802.11ac : 256-QAM, 64-QAM,16-QAM, QPSK, BPSK
Number of channels	U-NII-1:
	4 for IEEE 802.11a/n-HT20/ac-VHT20

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	2 for IEEE 802.11n-HT40)/ac-VHT40		
	1 for IEEE 802.11acVHT80		
	U-NII-3:		
	5 for IEEE 802.11a/n-HT20/ac-VHT20		
	2 for IEEE 802.11n-HT40/ac-VHT40		
	1 for IEEE 802.11ac-VHT80		
Channel spacing	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz		
	IEEE 802.11n-HT40/ac-VHT40: 40 MHz		
	IEEE 802.11ac-VHT80/: 80 MHz		
Support	hotspot	Peer-to-Peer	DFS detection
	Y	Y	N/A