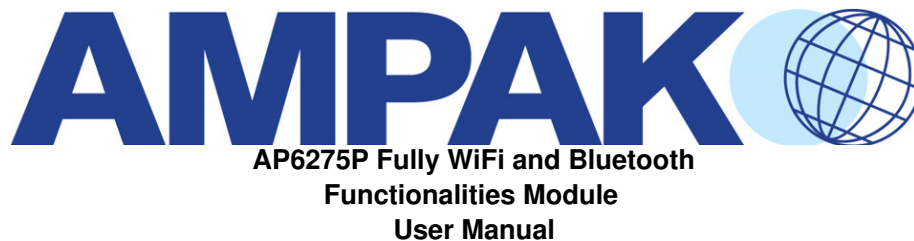




AMPAK AP6275P Fully WiFi and Bluetooth Functionalities Module User Manual

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Product Description:

The AMPAK Technology® AP6275P is a fully Wi-Fi and Bluetooth functionalities module with seamless roaming capabilities and advanced security, also it could interact with different vendors' 802.11a/b/g/n/ac/ax 2x2 Access Points with MIMO standard and can accomplish up to a speed of 1200Mbps with dual-stream in 802.11ax to connect the wireless LAN.

Furthermore, AP6275P included a PCIe interface for Wi-Fi, UART/ PCM interface for Bluetooth.

In addition, this compact module is a total solution for a combination of Wi-Fi + BT technologies. The module is specifically developed for tablets, OTT box, and portable devices.

Product Specification

General Specification

Model Name	AP6275P
Product Description	2T2R 802.11 ax/ac/a/b/g/n Wi-Fi + BT 5.0 Module
Dimension	L x W: 15 x 13(typical) mm H: 1.55(Maximum) mm
WiFi Interface	Support PCIe v3.0 compliant and runs at Gen1 speeds.
BT Interface	UART / PCM
Operating temperature	-30°C to 85°C
Storage temperature	-40°C to 125°C
Humidity	Operating Humidity 10% to 95% Non-Condensing)

Note: The optimal RF performance specified in the datasheet, however, is guaranteed only -10 °C to +55 °C and 3.2V < VBAT < 3.6V without derating performance.

2.4GHz RF Specification

Conditions: VBAT=3.3V; VDDIO=1.8V ; Temp:25°C

Feature	Description
WLAN Standard	IEEE 802.11b/g/n & Wi-Fi compliant
Frequency Range	2.400 GHz — 2.4835 GHz (2.4GHz ISM Band)
Number of Channels	2.4GHz : Ch1 ‘ Ch13
Modulation	802.11b: DUSK • DBPSK • CCK 802.11 gin : OFDM /64-QAM • 16-CIAM • QPSK • BPSK 802.11ax : OFDM /256-QAM • 64-QAM • 16-QAM • QPSK • BPSK

5GHz RF Specification

Conditions: VBAT=3.3V; VDDIO=1.8V ; Temp:25°C

Feature	Description
WLAN Standard	IEEE 802.11a/n/ac/ax & Wi-Fi compliant
Frequency Range	5.15~5.35GHz – 5.47~5.725GHz • 5.725~5.85GHz (5GHz UNII Band)
Number of Channels	5.15~5.356Hz : Ch36 ~ Ch64 5.47~5.725GHz : Ch100 – Ch140 5.725~5.85GHz : Ch149 – Ch165
Modulation	802.11a : OFDM /64-QAM • 16-QAM • QPSK • BPSK 802.11n : OFDM /64-QAM • 16-QAM – QPSK • BPSK 802.11ac : OFDM /256-QAM • OFDM /64-QAM • 16-QAM • QPSK • BPSK 802.11ax : OFDM/ 128- QAM • OFDM /256-QAM – OFDM /64-QAM • 16-QAM • QPSK • BPSK

Bluetooth Specification

Conditions : VBAT=3.3V; VDDIO=1.8V; Temp:25°C

Feature	Description
General Specification	
Bluetooth Standard	BDR • EDR(2 • 3Mbps) • LE(1Mbps) • LE2(2Mbps)
Host Interface	CART
Frequency Band	2402 MHz — 2480 MHz
Number of Channels	79 channels for classic • 40 channels for BLE

NOTICE:

- please keep this product and accessories attached to the places which children can't touch;
- do not splash water or other liquid onto this product, otherwise, it may cause damage;
- do not put this product near the heat source or direct sunlight, otherwise, it may cause deformation or malfunction;
- please keep this product away from flammable or naked flame;

- please do not repair this product by yourself. Only qualified personnel can be repaired.

FCC Statement

- List of applicable FCC rules

This device complies with FCC part 15C: 15.247&15.407

- Summarize the specific operational use conditions

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. And the module should be installed at a minimum distance of 20 cm away from the person nearby. The host product manufacturer should state this information to the host instruction manual.

- Trace antenna designs

Not applicable.

- RF exposure considerations

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

- Label and compliance information

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: 2AQ5RWIFIAP6275P Or Contains FCC ID: 2AQ5RWIFIAP6275P".

Information on test modes and additional testing requirements

Any final host product with the modular transmitter installed should be under test according to the guidance given in KDB 996369 D04. To enter test mode for the module, RFTTestTool.apk test software and ADB command are necessary. When something wrong happens in configuring test modes for host products with modules, the host product manufacturer should coordinate with the module manufacturer for technical support. It is recommended that some investigative measurements should be taken to confirm that the host product with the module installed does not exceed the spurious emissions limits or band edge limits.

Additional testing, Part 15 Subpart B disclaimer

The modular transmitter is only FCC authorized for the specific rule parts (FCC Part 15.247&15.407) list on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed when contains digital circuitry.

Canada Statement

This device complies with Industry Canada’s license-exempt RSS. Operation is subject to the following two conditions:

- 1. This device may not cause interference; and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.
The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems

Documents / Resources

Download PDF: Commercial Display Technology (C.D.T.)

WiFi Module

Model Number: PAB-1.0004.0002

Product Description:

WiFi Module

Product Specifications:

Parameter	Value
Frequency	2.4GHz
Power	100mW
Range	100m
Interface	USB
Protocol	802.11b/g/n
Security	WPA2
OS	Windows 7/8/10
Driver	Yes
Antenna	Yes
LED	Yes
Buttons	Yes
Ports	Yes
Connectivity	Yes
Storage	Yes
Display	Yes
Audio	Yes
Camera	Yes
Microphone	Yes
Speaker	Yes
Keypad	Yes
Touchscreen	Yes
Barcode Scanner	Yes
RFID Reader	Yes
GPS	Yes
Compass	Yes
Accelerometer	Yes
Gyroscope	Yes
Barometer	Yes
Thermometer	Yes
Humidity Sensor	Yes
Light Sensor	Yes
Proximity Sensor	Yes
Heart Rate Monitor	Yes
Step Counter	Yes
Sleep Tracker	Yes
Stress Monitor	Yes
Mood Tracker	Yes
Calendar	Yes
Notes	Yes
Reminders	Yes
Alarms	Yes
Weather	Yes
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