

Platform Features

General

- ARM Cortex A53 MCU with NPU with up to 1.0 GHz clock speed
- 256KB SRAM / 16MB NOR Flash (U-boot)/128MB NAND Flash (for system)
- Crypto engines including AES256 & SHA256 for network security.
- Two UART interfaces with hardware flow control and one UART for debug, all multiplexed with GPIO.
- One SPI slave interface multiplexed with GPIO.
- IEEE 802.11 b/g/n/ax 2x2 MIMO 2.4GHz compliant
- Supports 20MHz,40MHz bandwidth in 2.4GHz
- 802.11ax mode with data rate up to 573.5Mbps
- Greenfield, mixed mode, legacy modes support
- Security support for WEP WPA WPA2 WPA3
- Supports PCIe2.0 two lane for Wi-Fi module.
- Supports USB3.0/USB2.0 for WWAN modules.

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.

Notice:

Any changes or modifications not expressly approved by the party responsible for compliance could void your 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.

Modular information form OEM Information to Be Supplied to the End User
by the OEM or Integrator.

The following regulatory and safety notices must be published in
documentation supplied to the end user of the product or system
incorporating an adapter in compliance with local regulations.

Host system must be labeled with " Contains transmitter module
FCC: 2BDIDQ5018-IPA-W-01 ", FCC ID displayed on label.

The antenna(s) used for this transmitter must not be co-located of operating in
conjunction with any other antenna or transmitter.

This device complies with FCC radiation exposure limits set forth for an uncontrolled
environment. In order to avoid the possibility of exceeding the Fcc radio frequency
exposure limits, human proximity to the antenna shall not be less than 20cm (8inches)
during normal operation.