
Wi-Fi & BLE Module

A0120BSW-1

PRODUCTS USERMANUAL

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Product Description

A0120BSW-1 is a high-gain and low power consumption Wi-Fi module. It fully complies with IEEE 802.11b/g/n feature rich wireless connectivity at high standards, delivers reliable, cost-effective, throughput from an extended distance. When 5V, UART and GND were connected, this module is working. The Bluetooth part supports latest 5.1 LE operation.

Product Features

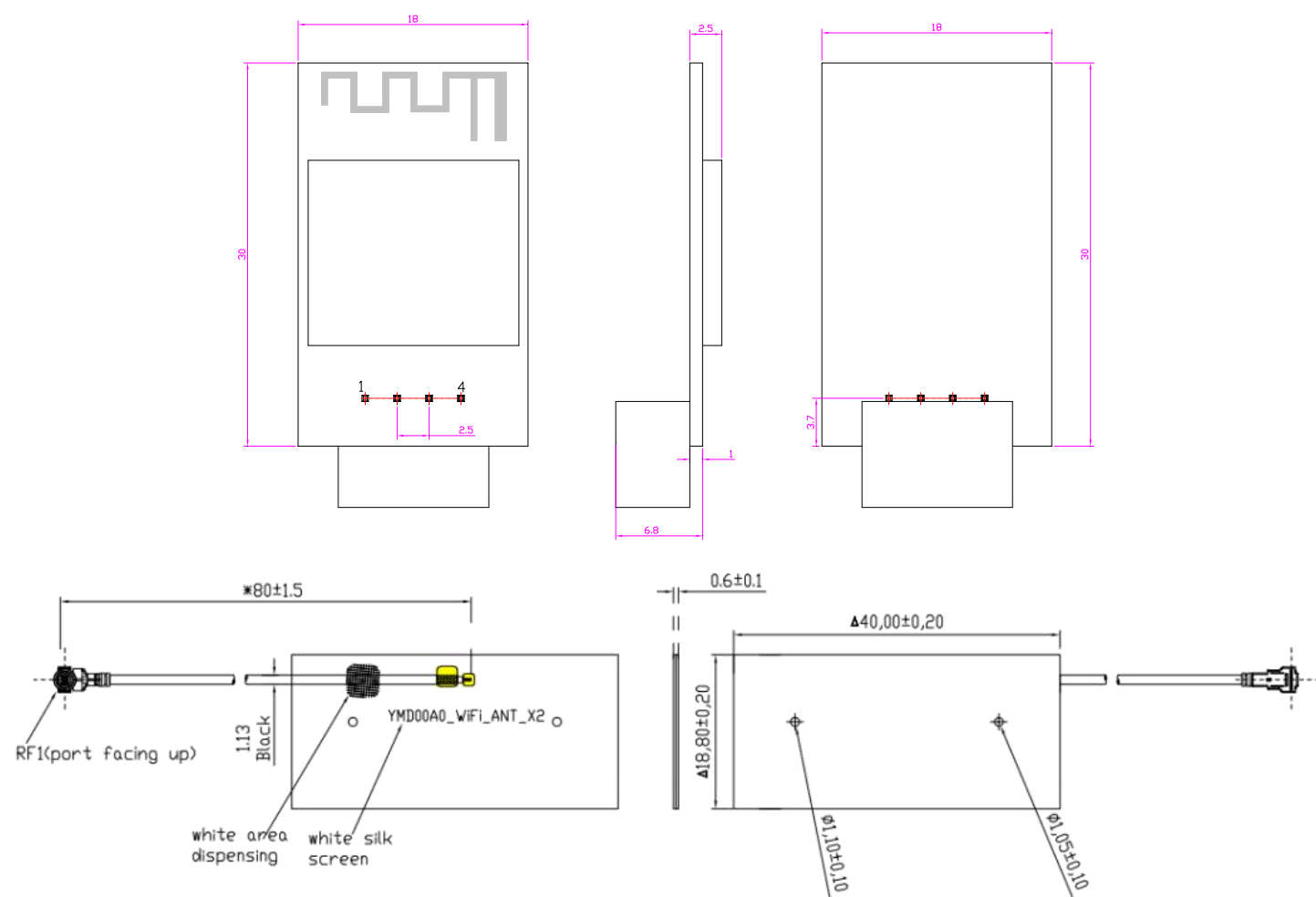
- ◆ Complies with IEEE 802.11b/g/n standard for 2.4GHz Wireless LAN.
- ◆ ONE Transmit and ONE Receive path (1T1R)
- ◆ Works with all existing network restructure.
- ◆ Capable of up to 128-Bit WEP Encryption.
- ◆ Freedom to roam while staying connected.
- ◆ UP to 75.5Mbps High-Speed Transfer Rate in 802.11N mode of operation.
- ◆ Complies with UART base specification revision 1.1 for WLAN
- ◆ Easy to install and configure.
- ◆ Bluetooth v5.1 Low Energy (LE);

Product Specification

Model	A0120BSW-1
Product Name	Wi-Fi & BLE Module
Standard	802.11 b/g/n BLE V5.1
Interface	Wi-Fi: UART BT: UART
Data Transfer Rate	1,2,5.5,6,11,12,18,22,24,30,36,48,54,60,90 and maximum of 75.5Mbps
Modulation Method	QPSK,BPSK ,CCK(802.11b) QPSK,BPSK,16QAM ,64QAM with OFDM (802.11g) BPSK,QPSK,16QAM ,64QAM with OFDM (802.11n) GFSK(BLE)
Frequency Band	CH 1~CH11 for FCC & IC CH 1~CH13 for CE & UKCA
2.4G WIFI	2412MHz-2472MHz
BLE	2402MHz-2480MHz
2.4G WIFI Transmit Power	< 20dBm
BLE	< 10dBm
Security	WEP, TKIP, AES, WPA, WPA2
Operating Voltage	5V±10%
Operating Temperature	-40 ~ 85°C ambient temperature
Storage Temperature	-40 ~ 125°C ambient temperature
Humidity	5 to 95 % maximum (non-condensing)



Size :(unit: mm)



Pin Definitions

Pin Name	Functional Description
GND	GND
TX	UART-TX, receive end in UART download
RX	UART-RX, transmit end in UART download, floating or pull up
5V	5V power supply

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.

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.

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.

FCC Radiation Exposure Statement

This equipment complies with FCC 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 equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

The module in this product is labeled with its own FCC ID. The FCC ID is not visible when the module is installed inside another device. Therefore, the outside of the device into which the module is installed must also display a label referring to the module. The final end device must be labeled in a visible area with the following

“Contains FCC ID: 2BC73A0120BSW-1”