seeed studio

INDUSTRIAL PRODUCT DATASHEET

# EMC3080 WI-FI&BLE Module - Support MXMESH

EMC3080 WI-FI&BLE Module - Support MXMESH: an IoT data communication module featuring Cortex-M33 processor, Bluetooth 5.0 BLE, and Wi-Fi connectivity for intelligent lighting, health care, household appliances,...

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 113990975 | 2026-10-23 03:11:04 | $2.35(Excl. VAT) |



# Overview




The EMC3080 WI-FI&BLE Module - Support MXMESH is designed for IoT data communication, featuring a Cortex-M33 Processor Core MX1300CF with 256K bytes SRAM and Bluetooth 5.0 BLE single mode. It supports a wide operating temperature range of -40℃ to +105℃, operating voltage 2.7V～3.3V, and offers more than 10 IO peripherals such as SPI, I2C with maximum Wi-Fi transmission rate up to 72.2 Mbps.

# Key Features

## EMC3080

### Description

The EMC3080 modules are mainly used for IoT data communication. Data collection and control are realized through a rich peripheral interface, and data can be transmitted to the Internet of Things cloud service platform through a Wi-Fi network connection to realize the Internet of Everything. This series of modules is used in a wide range of IoT applications through a variety of different form factors, interface types, antenna interfaces and temperature range.

### Features

- **Powerful CPU**：Cortex-M33 Processor Core MX1300CF with 256K bytes SRAM
- **Advanced Bluetooth**：Support Bluetooth 5.0 (BLE single mode). Support BLE Master/ Slave mode
- **Wide Working Voltage**: DC 3.0-3.6V
- Maximum transmission rate up to 72.2 Mbps with 20 MHz bandwidth.
- **High Quality Wi-Fi** Features
- **More than 10 IO Peripherals** such as SPI, I2C

### Parameter

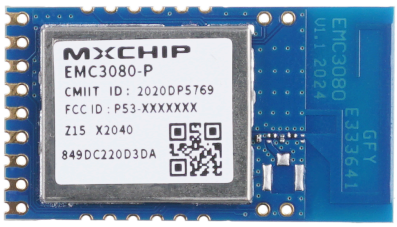
- **Operating Temperature**：-40℃ to +105℃
- **Operating Voltage:** 2.7V～3.3V
- **Antenna:** PCB antenna or IPEX connector (Optional)
- **Length*Width*Height:** 2.400*2.600*0.300(cm)
- **Weight:** 0.003kgs

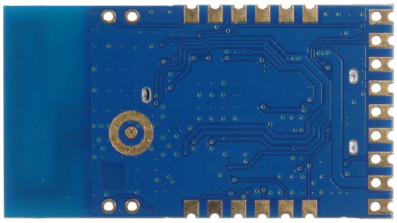
### Application Scenario

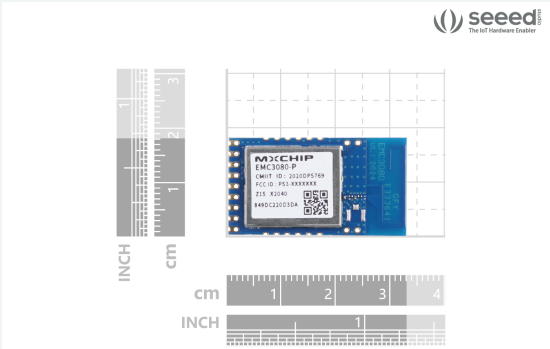
- Intelligent Lighting
- Health Care
- Intelligent Household Appliances
- Intelligent Electricians
- Portable Devices

### Hardware Architecture

# Product Gallery





## Compliance & Logistics




| | |
|---|---|
| HSCODE | 8517709000 |
| USHSCODE | 8517620090 |
| UPC | |
| EUHSCODE | 8517180000 |
| COO | CHINA |

**FCC Requirement**

Any 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.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

If not installed and used in accordance with the instructions, it 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.

# Resource Links

- https://www.seeedstudio.com/EMC3080-WI-FI-BLE-Module-p-5016.html
- EMC3080 WI-FI&BLE Module(English Version)
- EMC3080 WI-FI&BLE Module(Simplified Chinese Version)

**Seeed Technology Co.,Ltd.**
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

**Tel:** +86 0755-80695676
**Web:** www.seeed.cc
**Shop:** www.seeedstudio.com