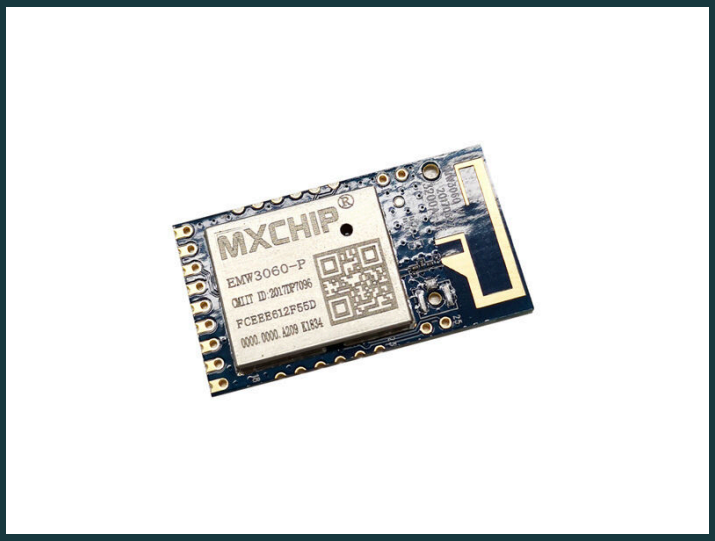
seeed studio

INDUSTRIAL PRODUCT DATASHEET

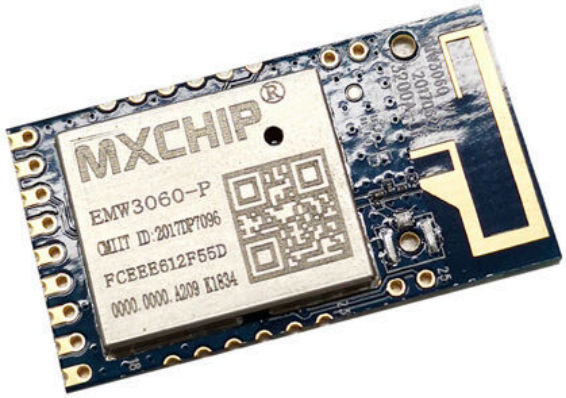
EMW 3060 WiFi Module

Cost-effective 802.11b/g/n Wi-Fi module with ARM9 MCU, 256KB RAM, 2MB FLASH, and comprehensive peripheral set for IoT and industrial applications.

SKU	UPDATED	PRICE
113990636	2026-04-09 12:34:39	$1.99(Excl. VAT)



Overview



The EMW3060 is a cost-effective embedded Wi-Fi module from MXCHIP, integrating an ARM9 core (120 MHz), 256KB SRAM, 2MB FLASH, and a WLAN MAC/Baseband/RF supporting 802.11b/g/n with data rates up to 72.2 Mbps. It offers a wide range of peripherals including 2x UART, 2x I2C, 1x SPI, 1x SDIO, 1x JTAG, and up to 15 GPIOs, with PCB or IPEX antenna options, operates from 3.0–3.6 VDC, and is suitable for intelligent lighting, smart home, industrial automation, and intelligent security applications.

Key Features

Note

Seeed fusion offers PCB/ PCBA manufacturing service for customized products based on EMW 3060 WiFi Module with an online instant quote and fast delivery. Furthermore, business users can enjoy a **free prototype** and engineer support as well. Click **here** to learn more!

EMW3060 is a cost-effective embedded Wi-Fi module released by MXCHIP with high integrating ARM9,WLAN MAC/Baseband/RF. Maximum frequency 120MHz with 256KB SRAM and 2MB FLASH. Power supply is DC 3.3V. Mounting mode is LGA SMT or DIP(Dual In-line Package). Peripherals: 2xUART / 1x SPI /2x I2C / Up to 15 GPIOs. Hardware diagram is shown below with four main parts:

- ARM9 main core
- WLAN MAC/BB/RF/ANT
- Peripherals
- Power management

With:

- ARM9 CPU with 120MHz maximum frequency and 256KB SRAM and 2MB FLASH. Support high speedUART, I2C, SPI and multi-GPIO.
- 2MB SPI Flash is used for custom firmware development
- Support PCB antenna and IPEX
- Input voltage: DC 3.3V

Features

- Support 802.11b/g/n, integrate ARM9, WLAN MAC/Baseband/RF
- 256KB RAM/ 2MB FLASH
- Working Voltage: DC 3.0-3.6V
- Maximum transmission rate up to 72.2 Mbps with 20 MHz bandwidth.
- Wi-Fi Features

- Support 802.11b/g/n，HT-40
- Support Station, Soft AP, Station+Soft AP
- Support EasyLink，Alink，Joinlink

Antenna: PCB or IPX (Optional)

- Peripherals：

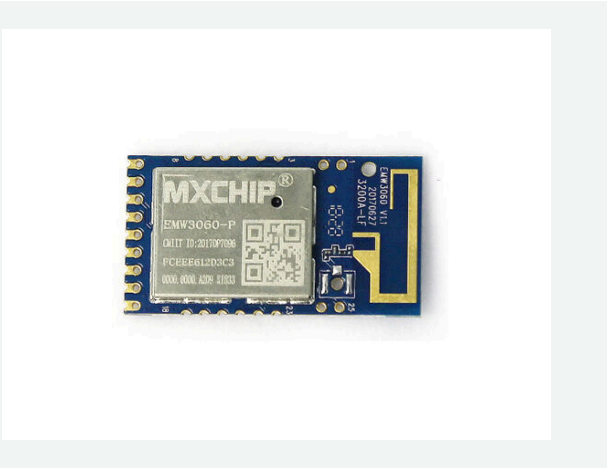
- 2x UART
- 2x I2C
- 1x SPI
- 1x SDIO
- 1x JTAG

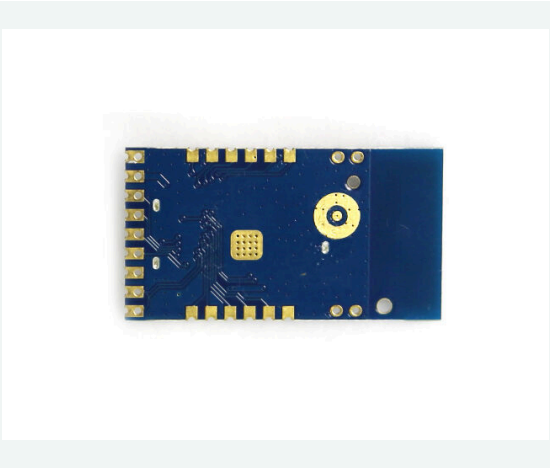
- Up to 15GPIOs
- Operating Temperature：-20℃ to +85℃

Application

- Intelligent lighting
- Intelligent Transportation
- Smart Home Application
- industrial automation
- Intelligent Security

Product Gallery





Compliance & Logistics

HSCODE	8517709000
USHSCODE	8517790000
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/EMW3060-WiFi-Module-p-2860.html
- Datasheet EN EMW3060 V1.8
- EMW3060_Current_Test
- WIFI Test Tool V1.0
- EMW3060-P SRRC
- EMW3060_ROHS Certification
- EMW3060_REACH Certification
- AT Firmware introduction, programming & download
- MXKit User Manual

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