# WE310F5

Wi-Fi 802.11 b/g/n
Bluetooth® LE

## Product Description

The WE310F5 is a fully integrated combination Wi-Fi 4 and Bluetooth® LE (qualified against Bluetooth® Core 5.3) module that provides a low-cost and high-speed wireless connection to an embedded microcontroller over UART, SPI and SDIO interfaces.

The comprehensive software features exposed through AT commands enable faster time to market, even with limited wireless expertise. IoT devices integrating WE310F5 are secured with WPA3 protocol, the next- generation, cutting-edge Wi-Fi security specification. Out-of-the-box support for Firmware Over-the-Air (FOTA) upgrades significantly reduces integration time. WE310F5 also offers multiple provisioning schemes, helping configure the device securely from a smartphone or a laptop.

## Key Features

- Fully integrated, single-band Wi-Fi 4 and Bluetooth® LE (qualified against Bluetooth® Core 5.3)

- Low-cost, high-speed, serial-to-wireless connection to an MCU over UART, SPI and SDIO interface

- Comprehensive software features

- Low power consumption

- Advanced security features (including WPA3)

- Industrial-grade temperature range (-40 °C to +85 °C)

- Variants with (WE310F5-I) and without (WE310F5-P) antennas

- AWS IoT Core qualified

## Target Applications

### Industrial/Commercial IoT

- Industrial automation

- Sensor gateways

- Condition-based monitoring

- Security panel

- Energy management

- Inspection camera

- Data logger

- Building automation

### Smart Home

- Thermostat

- Air purifier

- Air conditioner

- Security/monitoring camera

- Pet food dispenser

AVAILABLE FOR

North America
EMEA
Japan
Australia
Taiwan
China
Korea
Brazil
India

# WE310F5

| | |
|---|---|
| Module Wireless Specification | Wi-Fi:  802.11  b/g/n  (2.4GHz)<br>Bluetooth® LE (qualified against Bluetooth® Core 5.3) |
| Solution Architecture | Hosted (AT commands)<br>Standalone (host-less) |
| Host Interface | UART, SPI & SDIO |
| Wi-Fi Modes | AP (access point)<br>4 STA (clients) Concurrent<br>Mode (AP + STA) Wi-Fi Direct<br>(P2P) |
| BLE Modes | Central<br>Peripheral<br>Concurrent |
| Security Features | WPA3*/WPA2 Enterprise* - Personal<br>HTTPS server<br>Client TLS-1.2/TLS-1.3 |
| Coexistence | Inbuilt Wi-Fi Bluetooth® Low Energy |
| Provisioning<br>(Through web-apps and native apps) | Bluetooth® Low Energy Enabled<br>Wi-Fi HTTPS Enabled |
| Cloud Agent | Amazon AWS IoT<br>Microsoft Azure |
| Wi-Fi Throughput | 25 Mbps |
| Firmware Upgrade | FOTA |
| Dimension | Integrated antenna (WE310F5-I): 18 x 15 mm (LGA package)<br>External antenna (WE310F5-P): 14.3 x 13.1 mm (LGA package) |
| Wi-Fi Tx output power | 18 dBm |
| BLE Tx output power | 8 dBm |
| Operating Temperature | -40 °C to +85 °C (industrial grade) |
| Operating Voltage | 3.3 V |
| Compliance | FCC/ISED/ANATEL/RED/UKCA/JATE-JBL/TELEC-JRL/RCM/NCC/SRRC/WPC-ETA/KCC<br>Wi-Fi Alliance<br>BT SIG |

*Not supported in AP mode*

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