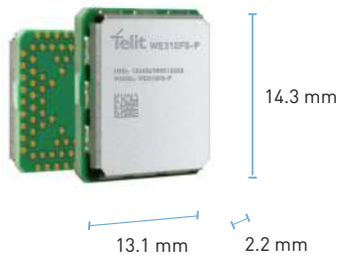
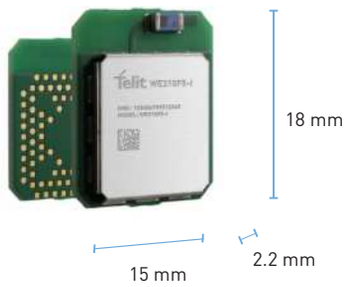
WE310F5

Wi-Fi 802.11 b/g/n BLE5





Product Description

The WE310F5 is a fully integrated, single-band Wi-Fi (802.11 b/g/n) and Bluetooth Low Energy (BLE5) combination 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 (11n) and BLE5 combination IoT module
- 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

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
China*
Korea*
Taiwan*
Brazil*

Complete, Ready-to-Use Access to the Internet of Things

IoT Modules | Connectivity Plans | Software & Platforms

WE310F5

Module Wireless Specification	Wi-Fi: 802.11 b/g/n (2.4GHz) BLE-5
Solution Architecture	Hosted (AT commands) Standalone (host-less)
Host Interface	UART, SPI & SDIO
Wi-Fi Modes	AP (access point) 14 STA (clients) Concurrent Mode (AP + STA) Wi-Fi Direct (P2P)*
BLE Modes	Central Peripheral Concurrent
Security Features	WPA/WPA2 (personal) WPA3 (personal) WPA3 (enterprise)* HTTPS server & client TLS-1.2/TLS-1.3*
Coexistence	Inbuilt Wi-Fi BLE
Provisioning (Through web-apps and native apps)	BLE enabled Wi-Fi HTTPS enabled Wi-Fi
Cloud Agent	Amazon AWS IoT* Microsoft Azure*
Wi-Fi Throughput	25 Mbps
Firmware Upgrade	FOTA
Dimension	Integrated antenna (WE310F5-I): 18 x 15 mm (LGA package) 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 Typ
Compliance	Wi-Fi Alliance BT-SIG

**Not available in first release*

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