

WE310G4

Wi-Fi 802.11 a/b/g/n

Bluetooth® Low Energy 5.0



Key Features

Dual-Band 2.4 GHz/5 GHz Wi-Fi and Bluetooth® Low Energy 5.0 compatible module based on Realtek RT8720BQ XIDFWXUHUV WR DGG ZLHHVV FRQQHFWLYLW\ WR WKHLU SURGXFWV 7KH PRGXOH LV EDVHG RQ DQ LQWHJUDWHG GXD FRUH V\ VWHP WE310G4 (single-band module alternative)

- Low power consumption
- Serial-to-Wi-Fi hosted implementation
- Telit IoT AppZoo IDE for hostless customer application development

Wide range of peripherals including UART, SPI and I2C (GPIO)3:0 *3,2 , 6
 Wide range of security features (including WPA3) with integrated crypto hardware
 ELN industrial-grade temperature range (-40 °C to +85 °C)
 Parts with (WE310G4-I) and without (WE310G4-P) antenna
 Certified modules

Target Applications

- Smart Home
- Thermostat
- Air purifier
- WiFi router
- Security monitoring camera
- Food dispenser

AVAILABLE FOR

- North America
- EMEA
- Japan*
- China*
- Korea*
- Taiwan*
- Brazil*

WE310G4

Wireless Specification	Wi-Fi - 802.11 a/b/g/n (2.4 GHz, 5 GHz), Bluetooth® Low Energy 5.0 (2.4 GHz)	
Solution Architecture	Hosted IoT module (AT command) or Standalone (hostless)	
Host Interface	UART, SPI, SDIO	
Other Interface	I2C, ADC (12-bit), DAC, I2S, SWD, USB, GPIOs	
Wi-Fi Modes	Wi-Fi AP (Access Point) STA (Client) Wi-Fi (AP + STA) Concurrent Mode 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*	Secure Boot TrustZone HW crypto accelerators Secure eFuse
Coexistence	Built-in Wi-Fi/Bluetooth®	
Provisioning (Through web-apps and native apps)	Bluetooth®-enabled Wi-Fi HTTPS-enabled Wi-Fi	
Cloud Agent	Amazon AWS IoT* Microsoft Azure*	
Firmware Upgrade	FOTA	
Dimension	Integrated antenna (WE310G4-I): 18 x 15 mm (LGA package) – WE310F5-I P2P compatible External antenna (WE310G4-P): 14.3 x 13.1 mm (LGA package) – WE310F5-P P2P compatible	
Wi-Fi Tx output power	18 dBm @ 2.4 GHz 19 dBm @ 5.0 GHz	
BLE Tx output power	8 dBm (TBC)	
Internal Flash	4 MB	
Operating Temperature	-40 °C to +85 °C (industrial grade)	
Operating Voltage	3.3 V	
Compliance	FCC/IC/RED Wi-Fi Alliance Bluetooth® Low Energy-SIG	
Environmental Compliance	RoHS, REACH	

*Not available in first release

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