

# WE310K6

Wi-Fi 802.11 a/b/g/n/ac/ax

Bluetooth® Dual-Mode



## Product Description

The WE310K6-P is a fully integrated dual band, dual stream (2x2) combo Wi-Fi 6 / Bluetooth® Dual-Mode companion module, that provides an easy, cost-effective way for manufacturers to add wireless connectivity to their products.

The WE310K6 is an ideal solution for organizations with limited Wi-Fi/Bluetooth® Low Energy or RF expertise or for those seeking faster time to market, as it reduces RF design time and removes the burden of testing and certification.

The Module is IEEE 802.11 a/b/g/n/ac/ax & Bluetooth® certified and comply with Wi-Fi Alliance & BT SIG-v5.2 requirements.

The WE310K6 module is easily designed into embedded systems, allowing customers to develop a broad array of devices and appliances that connect to other local devices or to the Internet over Wi-Fi.

Finally, the WE310K6-P is available in LGA package or on top of a M.2 Key E carrier board for an effortless integration.

## Key Features

- Dual-band (2.4 GHz/5 GHz) Wi-Fi 6 and Bluetooth® Dual-Mode companion module, 2x2 MU-MIMO
- Dual-stream spatial multiplexing up to 1201 Mbps data rate
- Bluetooth® LE (qualified against Bluetooth® Core 5.2)
- LE AUDIO Isochronous Channel (CIS) support
- Wi-Fi 802.11 a/b/g/n/ac/ax
- Advanced security features (including WPA3) with integrated crypto hardware
- Industrial grade temperature range (-40 °C to +85 °C)
- Certified Module
- Two Form Factor: LGA and M.2

## Target Applications

### Smart Home

- Home Automation
- Home Appliances
- Home Security and Alarm
- IP Cameras/Speakers
- Smart Lighting

### Health Care & Medical

- Remote Patient Monitoring
- Healthcare Devices
- Wellness Devices
- Pet/Animal Trackers
- Medical Wearables

### Industrial and commercial

- Industrial Automation
- Energy Management
- Robotics
- Building Automation
- Smart City

### Others Applications

- Aftermarket OEM Telematics
- Fleet management
- Smart parking
- Printers
- Asset management

### AVAILABLE FOR

North America

EMEA

Japan

Korea



# WE310K6

|                          |  |
|--------------------------|--|
| Wireless Specification   | Wi-Fi - 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz)<br>Channels Width 20MHz, 40MHz, 80MHz<br>Dual Stream (2 x 2) MU-MIMO              |
| Bluetooth® Specification | SIG v5.2 Compliant<br>Bluetooth® Dual-Mode<br>Bluetooth® LE (qualified against Bluetooth® Core 5.2)<br>LE 2M<br>LE Audio     |
| Solution Architecture    | Linux Companion  |
| Host Interface           | Wi-Fi: PCIe 1.1<br>Bluetooth®: HS-UART   |
| Wi-Fi Modes              | Wi-Fi AP (Access Point)<br>STA (Client)<br>Wi-Fi (AP + STA) Concurrent Mode  |
| Peripherals              | Bluetooth® Wake Host, Host Wake Bluetooth®,<br>Host Wake WL Disable Bluetooth®, Disable WL<br>Status: Led Bluetooth®, Led WL |
| Security Features        | WPA/WPA2 (personal)<br>WPA3 (personal/enterprise)  |
| Coexistence              | Inbuilt Wi-Fi Bluetooth® Low Energy  |
| Antenna                  | 2 RF Pads  |
| Dimenison                | LGA package, External antenna: 18 x 15 x 2.6 mm<br>M.2 Key E: 22 x 30 x 3.4 mm   |
| Wi-Fi Tx output power    | 19 dBm @ 2.4 GHz<br>18 dBm @ 5 GHz   |
| BLE Tx output power      | 5 dBm  |
| Operating Temperature    | -40 °C to +85 °C (industrial grade)  |
| Operating Voltage        | 3.3 V Typ  |
| Compliance               | RED/FCC/ISED/UKCA/JAPAN/KCC<br>Wi-Fi Alliance<br>BT SIG  |
| Environmental Compliance | RoHS, REACH  |

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