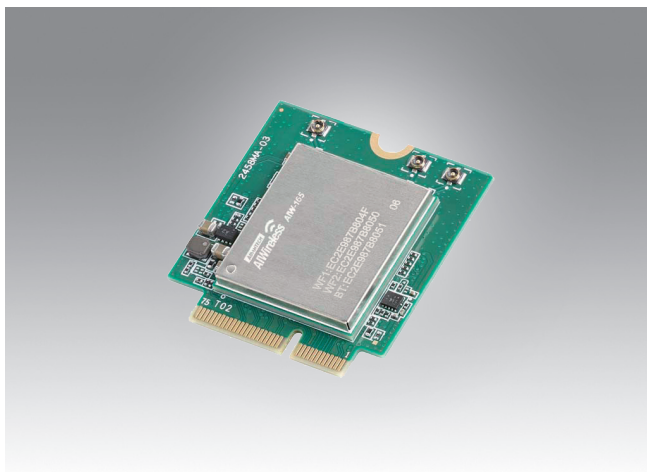


AIW-165

IEEE 802.11ax (2.4G/5G) + Bluetooth 5.3 M.2 2830 Module



Features

- IEEE 802.11 ax/ac/a/b/g/n (2.4GHz/5GHz) + Bluetooth 5.3
- 2Tx/2Rx
- Wi-Fi: WPA/WPA2/WPA3
- Operating temperature: -40 ~ 85 °C (-40 ~ 185 °F)
- Supports Linux
- Wi-Fi: Uplink and downlink OFDMA and MU-MIMO
- BT: LTE/MWS coexistence

Introduction

Advantech's AIW-165BN is an industrial grade wireless module that integrates Wi-Fi, Bluetooth, and low energy technology. It is an excellent solution for applications in medical devices, handheld solutions, industrial environments, embedded boards, and transportation.

Specifications

| | |
|------------------------|---|
| Main Chipset | NXP 88W9098 |
| Tx/Rx | 2Tx/2Rx |
| IEEE WLAN Standard | 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) |
| Bluetooth® | Bluetooth® 5.3 |
| Form Factor | M.2 2830, A-E Key card |
| Interface | Wi-Fi: PCI-E; Bluetooth: UART |
| Operation Voltage | 3.3V |
| Security | Wi-Fi: WPA/WPA2/WPA3 |
| Supported OS | Linux* |
| Operating Temperature | -40 ~ 85 °C (-40 ~ 185 °F) |
| Dimensions (H x W x D) | 28 x 30 x 3.95 mm (1.10 x 1.18 x 0.15 in) |

Ordering Information

| Part No. | Product Description |
|-----------|---|
| AIW-165BN | NXP 88W9098 802.11ax (2.4GHz/5GHz) + BT 5.3 M.2 2830 module |

Materials in Package

| Part | Specifications |
|---------------|---|
| 1750007965-01 | Wi-Fi Coaxial Cable, SMA (M) to MHF4, 30 cm (11.8 in) |
| 1750008717-01 | Wi-Fi 2.4 GHz and 5 GHz Dipole Antenna |
| 1930006770-01 | Screw M2.5*4L F/S D=4.5 H=0.8+ST Ni Nk |