# AIW-154

## 802.11ac/a/b/g/n and BT 5.0 M.2 2230 Module

## Features

- IEEE 802.11ac/a/b/g/n (2.4 and 5GHz) and Bluetooth 5.0
- Supports MU-MIMO (2T2R)
- Wide operating temperature -30 ~ 85 °C (-22 ~ 185 °F)
- Supports Linux OS
- M.2 2230 form factor module (L x W x H) 30 x 22 x 2.85 mm/ 1.18 x .86 x .11 in

## Introduction

Advantech's AIW-154BN is an industrial grade wireless module. It integrates Wi-Fi, Bluetooth, and low energy technology; and is an excellent solution for applications in medical devices, handheld solutions, industrial environments, embedded boards, and transportation.

## Specifications

| | |
|---|---|
| Main Chipset | NXP 88W8997 |
| Tx/Rx | 2TX / 2RX |
| Standard Conformance | IEEE 802.11ac/a/b/g/n, Bluetooth 5.0 |
| Form Factor | M.2 2230 |
| Interface | Wi-Fi: PCIe<br>BT: UART |
| Operating Voltage | DC 3.3V |
| Security | ▪ WAPI<br>▪ WEP 64-bit and 128-bit encryption with H/W TKIP processing<br>▪ WPA/WPA2/WPA3 (Wi-Fi Protected Access)<br>AES-CCMP hardware implementation as part of 802.11i security standard |
| OS Supported | Linux (open source), Recommend Kernel V4.0 and above. |
| Operating Temperature | -30 ~ 85 °C (-22 ~ 185 °F) |
| Dimensions (L x W x H) | 30 x 22 x 2.85 mm/1.18 x .86 x .11 in |

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## Ordering Information

| Part No. | Product Description |
|---|---|
| AIW-154BN | IEEE 802.11ac/a/b/g/n, Bluetooth 5.0, 2T2R, M.2 2230 PCIe/UART Module |

## Suggested Antenna and Cable

| Part No. | Specifications |
|---|---|
| 1750007965-01 | Wi-Fi coaxial cable, RP-SMA (F) to MHF4, 300mm |
| 1750008717-01 | Wi-Fi 2.4 GHz and 5 GHz Dipole Antenna |



All product specifications are subject to change without notice.

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