

# AIW-173BQ

## IEEE 802.11be/ax/ac/b/g/n + Bluetooth 5.3 Wi-Fi 7 Solution



### Features

- 6GHz support
- IEEE 802.11 be/ax/ac/b/g/n + Bluetooth 5.3
- MLO (Multi-Link Operation) support
- 2Tx/ 2Rx
- 64/128 bit WEP, WPA, WPA2, WPA3, 802.1x
- Operating temperature: -40 ~ 85 °C
- Compatible with Rockchip, Nvidia and NXP platforms
- DBDC (Dual band dual Concurrent) support

### Specifications

|                        |                                             |
|------------------------|---------------------------------------------|
| Main Chipset           | WCN7851                                     |
| Tx/Rx                  | 2Tx/ 2Rx (2 IPEX MHF4 connector Receptacle) |
| Standard Conformance   | Wi-Fi 7 + BT5.3                             |
| Form Factor            | M.2 2230 E Key/1620 LGA/Full-size MiniPCle  |
| Interface              | Wi-Fi: PCI-E, Bluetooth: USB/UART           |
| Operation Voltage      | DC 3.0 ~ 3.3V                               |
| Power Consumption      | TX Mode: TBC                                |
| Security               | 64/128 bit WEP, WPA, WPA2, WPA3, 802.1x     |
| O.S Supported          | Windows 11/Linux                            |
| Temperature Ranges     | Operation: -40 ~ 85 °C                      |
| Dimensions (L x W x H) | TBC                                         |

### Ordering Information

| Part No.      | Product Description                                                                      |
|---------------|------------------------------------------------------------------------------------------|
| AIW-173LQ-GI1 | Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, LGA 1620 (Wi-Fi: PCIe/BT:USB)           |
| AIW-173LQ-GI2 | Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, LGA 1620 (Wi-Fi: PCIe/BT:UART)          |
| AIW-173BQ-GI1 | Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, M.2 2230 E key (Wi-Fi: PCIe/BT:USB)     |
| AIW-173BQ-GI2 | Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, M.2 2230 E key (Wi-Fi: PCIe/BT:UART)    |
| AIW-173HQ-GI1 | Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, Full-size MiniPCle (Wi-Fi: PCIe/BT:USB) |

### Suggested Antenna and Cable

| Model   | Part No.      | Specifications                                                              |
|---------|---------------|-----------------------------------------------------------------------------|
| AIW-512 | 1751000651-01 | Omni-directional radiation pattern, compatible for WiFi5/6/6E/7             |
| AIW-513 | 1751000717-01 | Omni-directional radiation pattern, compatible for WiFi5/6/6E/7, IP67 level |
|         | 1751000648-01 | WiFi Coaxial Cable, 10cm, RP-SMA female to IPEX4                            |
|         | 1751000622-01 | WiFi Coaxial Cable, 15cm, RP-SMA female to IPEX4                            |
|         | 1751000635-01 | WiFi Coaxial Cable, 20cm, RP-SMA female to IPEX4                            |
|         | 1751000621-01 | WiFi Coaxial Cable, 25cm, RP-SMA female to IPEX4                            |
|         | 1751000620-01 | WiFi Coaxial Cable, 30cm, RP-SMA female to IPEX4                            |