

# AIW-170BQ

IEEE 802.11ax/ac/b/g/n + Bluetooth 5.3  
M.2 2230 (E-Key) Card



## Features

- SoftAP mode support
- Bluetooth 5.3
- 2Tx/ 2Rx
- 64/128 bit WEP, WPA, WPA2, WPA3, 802.1x
- Operating temperature: -40 to 85 °C
- Compatible with Nvidia and NXP platforms
- DBDC support (Dual band dual concurrent)

## Specifications

Main Chipset	WCN6856/QCA2066
Tx/Rx	2Tx/ 2Rx (2 IPEX MHF4 connector Receptacle)
Standard Conformance	Wi-Fi 6E + BT5.3
Form Factor	M.2 2230, E-key card
Interface	Wi-Fi: PCI-E, Bluetooth: USB
Operation Voltage	DC 3.0 ~ 3.3V
Power Consumption	TX Mode: 632mA (Average)
Security	64/128 bit WEP, WPA, WPA2, WPA3, 802.1x
O.S Supported	Windows/Linux
Temperature Ranges	Operation: -40 to 85 °C
Dimensions (L x W x H)	22 x 30 x 2.2 mm

## Ordering Information

Part No.	Product Description
AIW-170BQ-001	Advantech Brand, Wi-Fi 6E + BT 5.3, WCN6856/QCA2066, 2T2R, M.2 2230 E key

## 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