

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-G11	Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, LGA 1620 (Wi-Fi: PCIe/BT:USB)
AIW-173LQ-G12	Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, LGA 1620 (Wi-Fi: PCIe/BT:UART)
AIW-173BQ-G11	Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, M.2 2230 E key (Wi-Fi: PCIe/BT:USB)
AIW-173BQ-G12	Advantech Wi-Fi 7+BT5.3, Qualcomm WCN7851, 2T2R, M.2 2230 E key (Wi-Fi: PCIe/BT:UART)
AIW-173HQ-G11	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