



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

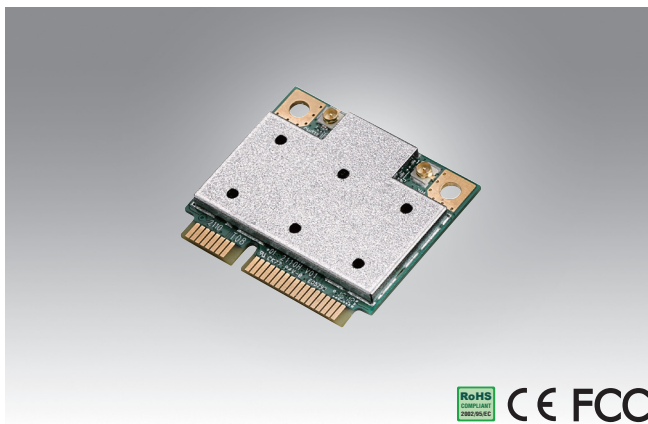
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# EWM-W161H

802.11 a/b/g/n + Bluetooth 4.0  
Half-size Mini PCIe Card



## Features

- IEEE 802.11 a/b/g/n + Bluetooth 4.0 HS standard
- 2Tx/ 2Rx
- Up to 300 Mbps data rate
- 64/128 bit WEP, 802.1x, TKIP and AES
- Operating temperature: -10 to 70 °C

## Specifications

Main Chipset	Atheros AR9462
Tx/Rx	2Tx/ 2Rx (2 U.FL connectors)
Standard Conformance	802.11 a/b/g/n
Form Factor	Half-size Mini PCIe card
Interface	WiFi: PCI-E, Bluetooth: USB
Operation Voltage	DC 3.3V ±5%
Power Consumption	WiFi Continue TX: 445 mW (Avg.)
Security	64/128 bit WEP
O.S Supported	Windows 7/8/8.1/10
Temperature Ranges	Operation: -10 to 70 °C
Dimensions (L x W x H)	26.65 x 29.85 x 3.95 mm

## Ordering Information

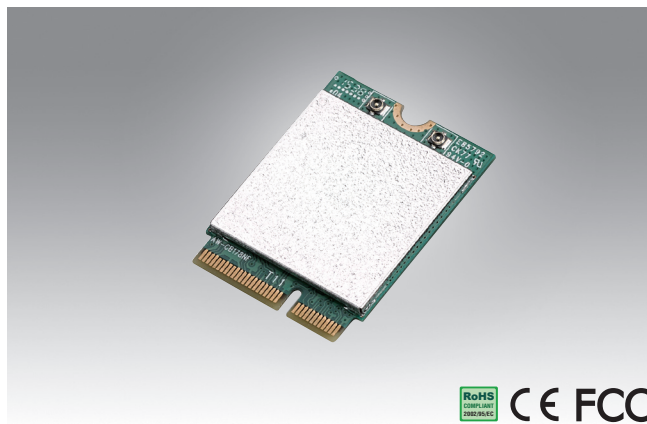
Part No.	Product Description
EWM-W161H01E	Advantech Brand, 802.11 a/b/g/n, Atheros AR9462, 2T2R, w/ BT4.0, Half-size Mini PCIe Card

## Suggested Antenna and Cable

Part No.	Specifications
1750002842	WiFi 2.4 GHz and 5 GHz dipole Antenna
1750006043	WiFi Coaxial Cable, 150 mm
1750006010	WiFi Coaxial Cable, 200 mm
1750005885	WiFi Coaxial Cable, 230 mm

# EWM-W162M2

802.11 ac/a/b/g/n + Bluetooth 4.2  
M.2 2230 (E-Key) Card



## Features

- IEEE 802.11 ac/a/b/g/n + Bluetooth 4.2 HS standard
- 2Tx/ 2Rx
- 64/128 bit WEP, 802.1x, TKIP and AES
- Operating temperature: -30 to 85 °C

## Specifications

Main Chipset	Marvell 88W8897P
Tx/Rx	2Tx/ 2Rx (2 U.FL connectors)
Standard Conformance	802.11 ac/a/b/g/n
Form Factor	M.2 2230, E-key card
Interface	WiFi: PCI-E, Bluetooth: USB
Operation Voltage	DC 3.0 - 3.3V
Power Consumption	Continue TX: 345mA (Avg.), (BT is off)
Security	64/128 bit WEP
O.S Supported	Linux
Temperature Ranges	Operation: -30 to 85 °C
Dimensions (L x W x H)	22 x 30 x 0.8 mm

## Ordering Information

Part No.	Product Description
EWM-W162M201E	Advantech Brand, 802.11 ac/a/b/g/n, Marvell 88W8897P, 2T2R, w/ BT4.2 (Low energy operation)

## Suggested Antenna and Cable

Part No.	Specifications
1750002842	WiFi 2.4 GHz and 5 GHz dipole Antenna
1750007965-01	WiFi Coaxial Cable, SMA (M) to MHF4, 30 mm