

## HCWIFI097AN-F

2.4GHz Wireless N + Bluetooth  
Mini-PCI Express Card



<b>Product Description</b>	IEEE 802.11b/g/n Wi-Fi with Bluetooth 4.0 class II Combo
<b>BlueTooth Standard</b>	IEEE 802.11b/g/n, Wi-Fi compliant / Bluetooth v4.0 Standard
<b>Host Interface</b>	PCIE / USB
<b>Major Chipset</b>	Atheros AR9485 (MAC/Baseband/RF) with AR3012
<b>Wi-Fi PID</b>	2C97
<b>Wi-Fi VID</b>	1A3B
<b>BT PID</b>	3362
<b>BT VID</b>	13D3
<b>Dimension</b>	29.85mm x 26.65mm x 3.2 mm (Tolerance remarked in mechanical drawing)
<b>Weight</b>	3.1 g
<b>Antenna</b>	Standard U.FL-R-SMT Connector 1: WiFi □ TX/RX 2: Wi-Fi RX diversity ; Bluetooth □ TX/RX
<b>Operating Conditions</b>	
<b>Voltage</b>	3.3V +/- 9%
<b>Temperature</b>	Operating: 0~80 oC
<b>Storage temperature</b>	-40 oC~ 85 oC
<b>Electrical Specifications</b>	
<b>Frequency Range</b>	Wi-Fi: 2.4 GHz ISM Bands 2.412-2.472 GHz, 2.484 GHz / BT: 2402MHz~2483MHz
<b>Modulation</b>	Wi-Fi: 802.11 g/n: OFDM 802.11b: CCK(11, 5.5Mbps), QPSK(2Mbps), BPSK(1Mbps) BT: Header GFSK Payload 2M: 4-DQPSK Payload 3M: 8DPSK
<b>Output Power</b>	Wi-Fi: 802.11b: Typical 17 dBm at 11Mbps +/- 2.5dBm 802.11g: Typical 13 dBm at 54Mbps +/- 2.5dBm 802.11n 2.4G HT20 : 11 dBm at MCS7 +/-2.5dBm 802.11n 2.4G HT40 : 11 dBm at MCS7 +/- 2.5dBm BT: -6 ≤ Output Power ≤ +4 dBm (Conductive)
<b>Receive Sensitivity</b>	802.11b: less than -76 dBm (11Mbps) 802.11g: less than -65 dBm (54Mbps) 802.11n: less than -64 dBm at HT20 MCS7 less than -61 dBm at HT40 MCS7 BT: BER < 0.1% (Anritsu 8852B Tx -70dBm)
<b>Operating Range</b>	Wi-Fi: Open Space:300m (speed may vary by environment) BT: 10m (depending on environment and NB model)
<b>Regulatory</b>	FCC, CE... Refer to Atheros WB225 regulatory list



**Jetway Computer Corporation**  
8058 Central Ave., Newark, CA 94560  
Phone: 510-857-0130 Fax: 510-857-0138  
[www.jetwaycomputer.com](http://www.jetwaycomputer.com)

