

HCWIFI097AN-F

2.4GHz Wireless N + Bluetooth
Mini-PCI Express Card



Product Description	IEEE 802.11b/g/n Wi-Fi with Bluetooth 4.0 class II Combo
BlueTooth Standard	IEEE 802.11b/g/n, Wi-Fi compliant / Bluetooth v4.0 Standard
Host Interface	PCIE / USB
Major Chipset	Atheros AR9485 (MAC/Baseband/RF) with AR3012
Wi-Fi PID	2C97
Wi-Fi VID	1A3B
BT PID	3362
BT VID	13D3
Dimension	29.85mm x 26.65mm x 3.2 mm (Tolerance remarked in mechanical drawing)
Weight	3.1 g
Antenna	Standard U.FL-R-SMT Connector 1: WiFi □ TX/RX 2: Wi-Fi RX diversity ; Bluetooth □ TX/RX
Operating Conditions	
Voltage	3.3V +/- 9%
Temperature	Operating: 0~80 oC
Storage temperature	-40 oC~ 85 oC
Electrical Specifications	
Frequency Range	Wi-Fi: 2.4 GHz ISM Bands 2.412-2.472 GHz, 2.484 GHz / BT: 2402MHz~2483MHz
Modulation	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
Output Power	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)
Receive Sensitivity	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)
Operating Range	Wi-Fi: Open Space:300m (speed may vary by environment) BT: 10m (depending on environment and NB model)
Regulatory	FCC, CE... Refer to Atheros WB225 regulatory list



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