

MINIPCIE-WLAN-159H WiFi/BT module



Features:

- * High speed WiFi up to 150 Mbps
- * 2 antennas support WiFi and BT
- * WCS (Wireless Coexistence System)
- * BT v 4.0/ 3.0+ high speed support
- * EDR compliant both 2Mbps & 3Mbps support
- * Fully-speed Piconet & Scatternet support
- * Mini card PCI-E 1.1 & 1.2 standard support
- * WOWL support

Specifications



Model Name	MINIPCIE-WLAN-159H
Product Description	IEEE 802.11b/g/n 1T1R WLAN, Bluetooth 4.0/ 3.0 Half Mini Card
Host Interface	WiFi: PCIe / Bluetooth: USB
Major Chipset	Realtek RTL8723BE
Dimension	26.65 mm x 29.85 mm x 2.4 (+/- 0.2) mm
WiFi PID/ VID	B723/ 10EC
Wifi SSID/ SVID	2159/ 1A3B
BT PID/ VID	3410/ 13D3
Antenna	Standard U.FL connector
	1. Connector of Ant1: for WiFi Tx/Rx or BT Tx/Rx
	2. Connector of Ant2: for BT Tx/Rx or WiFi Tx/Rx

Electrical Specifications	
Frequency Range	WiFi: 2.4GHz ISM Bands 2.412-2.472 GHz, 2.484 GHz/
	BT: 2,402MHz~2,483MHz
Modulation	WiFi:
	802.11b: CCK, DQPSK, DBPSK
	802.11g: 64 QAM, 16 QAM, QPSK, BPSK
	802.11n: 64 QAM, 16 QAM, QPSK, BPSK
Modulation	BT:
	Header GFSK
	Payload 2M: $\pi/4$ DQPSK
	Payload 3M: 8DPSK
Output Power	WiFi:
	802.11b: 16 dBm +/-1.5dBm (11Mbps)
	802.11g: 14 dBm +/-1.5dBm (54Mbps)
	802.11n: 13 dBm +/-1.5dBm (HT20 MCS7)
	802.11n: 13 dBm +/-1.5dBm (HT40 MCS7)

	BT:4 ≤ Output Power ≤ 15 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
	802.11n: less than -61 dBm at HT40 MCS7
	BT: BER < 0.1% (Anritsu 8852B Tx -70 Bm)
Operating Range	WiFi: Open Space: -300M / Indoor: ~100M
	(The transmission speed may vary according to the enivorment)
Regulatory	Will follow Realtek RTL8723BE worldwide regulatory
Operating Conditions	
Voltage	3.0V~3.6V
Temperature	0~70℃
Storage Temperature	-40~80℃

