



9.95 EUR

incl. 19% VAT, plus shipping

- **WLAN**
- **Bluetooth**
- **Half-Height Mini-PCle**

PCIE half size Mini-Card

Antennas to support 1(Transmit)\*1 (Receive) technology and BT

Ant. 1(Main): WiFi à TX/RX

Ant. 2(Aux): Bluetooth à TX/RX, WiFi à RX

Low power consumption and high performance

Enhanced wireless security

Enhanced Data Rate(EDR) compliant for both 2Mbps and 3Mbps supported

Fully speed operation with Piconet and Scatternet support

### Specifications

Host Interface: PCIE

Wi-Fi PID: 2C87

Wi-Fi VID: 1A3B

BT PID: 2087

BT VID: 1A3B

Dimension: 26.65x29.85x3.95 mm

Weight: 3.6 g

Antenna:

Hirose\* U.FL-R-SMT

1 (Main) : WiFi à TX/RX ,

2 (Aux): Bluetooth à TX/RX, Wi-Fi à RX

### Operating Conditions

Voltage: 3.3V +/- 5%

Temperature: 0-70 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: 17 dBm +/-1.5dBm

802.11g: 14 dBm +/-1.5dBm

802.11n(HT20): 14 dBm +/-1.5dBm

802.11n(HT40): 14 dBm +/-1.5dBm

BT:  $+4 \leq \text{Output Power} \leq +8$  dBm (Conductive)

#### Receive Sensitivity

Wi-Fi: 802.11b: less than -80 dBm (11Mbps)

802.11g: less than -70 dBm (54Mbps)

802.11n: less than -61 dBm at HT40 MCS7

less than -64 dBm at HT20 MCS7

BT: BER < 0.1% (Anritsu 8852B Tx -70Bm)

#### Operating Range

Wi-Fi: Open Space: ~300M Indoor:~100M

(The transmission speed may vary according to the environment)

BT: 10m~20m (depending on environment and NB model)

#### Regulatory

FCC, CE, China refer Regulatory list of Ralink RT3290