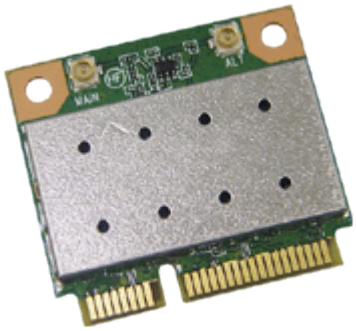
WPEA-152GN(BT)

Feature

- Chipset: Atheros AR9485 + AR3012
- Interface: Half Mini Card (PCIe: WLAN; USB: Bluetooth)
- Wireless connection up to 150Mbps
- Antenna: 2 x U.FL connectors, 1T1R
- Concurrent Wi-Fi (802.11n) and BT (4.0 LE/ 3.0 HS/ 2.1 EDR) antenna co-existence
- Enhanced wireless security: 64/128-bits WEP, WPA, WPA2
- Driver Support:
  Wi-Fi: Windows XP/Vista/Win 7, Linux, Android by request
  Bluetooth: Windows XP/Vista/ Win 7, Linux, Android by request

Application

- Industrial PC
- Networking Equipment
- Automation
- Medical Device
- POS (Point-of-Sale) System
- Gaming Machine



Wireless-GN Bluetooth Half Mini Card

Highest Performance with Atheros AR9485 + AR3012 Solution, up to 150Mbps

Superior Performance with Longer Range and Faster Speed

SparkLAN Wireless Half Mini Card, WPEA-152GN(BT), is compliant with 802.11b/g/n standard that can support up to 150Mbps data rates. Comparing to 802.11g technology, 802.11n standard makes big improvement on speed and range.

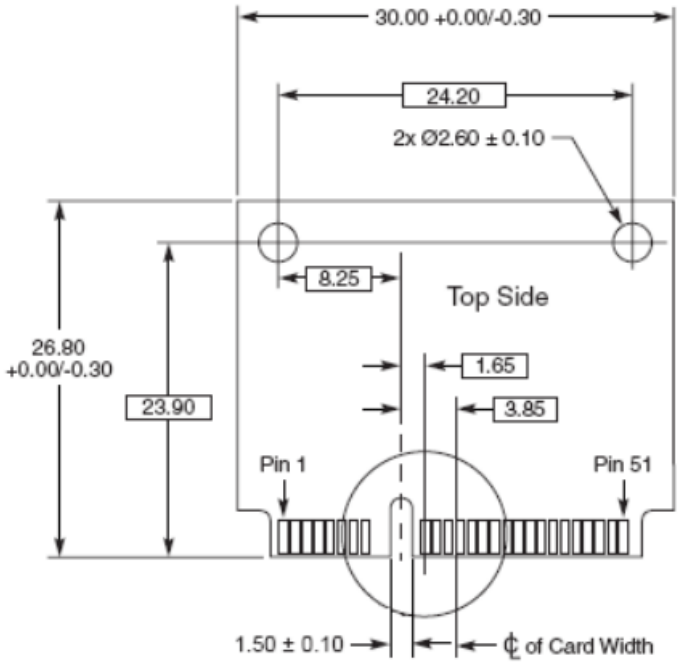
Bluetooth Transmission

WPEA-152GN(BT), embedded with Atheros AR9485 + AR3012 chipset, also integrates the Bluetooth transmission technology for voice and data transfers between devices in a short distance. WPEA-152GN(BT) is designed properly for any wireless enabled devices with Half Mini Card slot.

Secure Wireless Connection

This Half Mini Card WPEA-152GN(BT) with advanced security encryption, such as 64/128-bits WEP, WPA, and WPA2, helps prevent from malicious attacks.

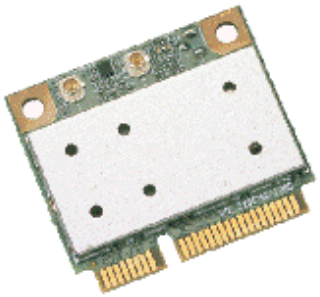
Mechanical Dimension



WPEA-152GN(BT)

Related Product

- WPEA-250GN
  Wireless-GN Half Mini Card



- WUBT-132GN(BT)
  802.11b/g/n Bluetooth Combo
  USB Module



Ordering Info

- WPEA-152GN(BT)
  Wireless-GN Bluetooth Half
  Mini Card

Specifications

Standard

802.11b/g/n, Bluetooth 4.0 LE/ 3.0 HS/ 2.1 EDR standard

Chipset

Mac/BB /RF	Atheros AR9485 + AR3012

Host Interface

Half Mini Card (PCIe: WLAN; USB: Bluetooth)

Radio

Antenna	2 x U.FL connectors (1T/1R) Support WLAN / BT co-existence
Operating Frequency	Wi-Fi: b/g/n ISM Band: 2.400GHz ~ 2.4835GHz Bluetooth: 2402MHz ~ 2480MHz
Modulation	Wi-Fi: 802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) Bluetooth: Header: GFSK Payload 2M: 4-DQPSK Payload 3M: 8-DPSK
Output Power	Wi-Fi: 802.11b: 17dBm ± 2dBm 802.11g: 13dBm ± 2dBm 802.11gn HT20: 11dBm ± 2dBm@MCS7 802.11gn HT40: 11dBm ± 2dBm@MCS7 Bluetooth: 0 ≦ Output PowerAvg ≦ +10dBm (Class 1 Device)
Receive Sensitivity	Wi-Fi: 802.11b: -85dBm ± 2dBm@11Mbps 802.11g: -68dBm ± 2dBm@54Mbps 802.11gn HT20: -68dBm ± 2dBm@MCS7 802.11gn HT40: -65dBm ± 2dBm@MCS7 Bluetooth: BER < 0.1% at -70 dBm)

Power consumption

Continue TX	Max 310 mA
Continue RX	Max 180 mA

Operating Voltage

DC 3.3V ± 9%

Environmental

Temperature Range	0 ~ 75°C (Operating) -40 ~ 85°C (Storing)
Humidity (Non-Condensing)	5 ~ 90% (Operating) 5 ~ 95% (Storing)

Physical Specification

Dimensions	30 x 26.8 x 3.4mm (± 0.15mm)
Weight	7g

Software

Driver	Wi-Fi: Windows XP/Vista/Win 7, Linux, Android by request Bluetooth: Windows XP/Vista/Win 7, Linux, Android by request
Security	64/128-bits WEP, WPA, WPA2