WMIA-209GN

Feature

- Output power up to 17dBm
- 2 antennas to support 2T2R MIMO technology
- Enhanced wireless security: 64/128/152-bits WEP, WPA, WPA2, Encryption TKIP/ AES, 802.1X, LEAP
- Driver Support: Windows 2000/XP/Vista32/ Vista64, Linux 2.6
- Environmental Friendly: RoHS Compliant

Application

- Networking Equipment: Wireless Router, Outdoor AP, Set-top Box
- Wireless Enabled Applications: Digital Photo Frame, Digital TV



802.11b/g/n Wireless Mini PCI Module

Optimized Cost/ Performance with Atheros AR9223 Solution, 2T2R

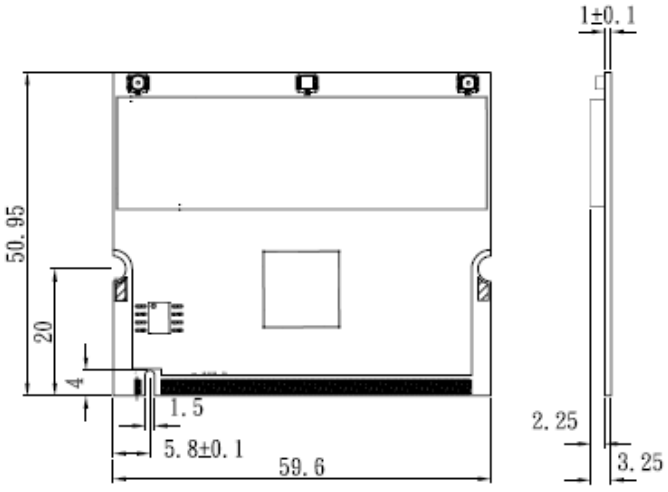
Reliable High-Speed Embedded Application

SparkLAN WMIA-209GN is a high-speed 802.11n Mini PCI module with Atheros AR9223 chipset, which delivers up to 300Mbps data rate. It incorporates the latest MIMO 2T2R technology for stable networking, making it ideal for integrating into AP and Embedded System.

Secure Wireless Connection

WMIA-209GN also features advanced WEP encryption, WPA, WPA2, and AES to help protect data over wireless communication without sacrificing the performance. SparkLAN WMIA-209GN is the best choice for you to quickly and easily integrate with your wireless enabled applications.

Mechanical Dimension (mm)



WMIA-209GN

Related Product

- WMIA-207GN
  802.11b/g/n Mini PCI Module



- WMIR- 215GN
  802.11b/g/n Mini PCI Module



Ordering Info

- WMIA-209GN
  802.11b/g/n Wireless Mini PCI Module

Specifications

Standard

802.11 b/g/n

Chipset

MAC/BB/RF Processor	Atheros AR9223

Host Interface

32-bits Mini PCI Type IIIA

Radio

Antenna	2 x U.FL connectors, 2T2R	
Operating Frequency	802.11b/g ISM Band: 2.412 ~ 2.472GHz 802.11gn HT20 Band: 2.412 ~ 2.472 802.11gn HT40 Band: 2.422 ~ 2.462	
Modulation	802.11b (DSSS) 2Mbps (DQPSK) 802.11g (OFDM/DSSS) 48/54Mbps (QAM-64), 24/36Mbps(QAM-16) 12/18Mbps (QPSK) 802.11n (OFDM/DSSS) QAM-64, QAM-16, QPSK, BPSK	5.5/11Mbps (CCK) 1Mbps (DBPSK)
Output Power	802.11b : 17dBm@11Mbps 802.11g : 14dBm@54Mbps 802.11n : 14dBm@MCS15 (HT20)	11dBm@MCS15 (HT40)
Receive Sensitivity	802.11a : -83dBm@11Mbps 802.11b : -70dBm@54Mbps 802.11g: -64dBm@MCS15 (HT20)	-61dBm@MCS15 (HT40)

Power consumption

Continue TX	Max 550mA
Continue RX	Max 350mA

Operating Voltage

DC 3.3V ± 5 %

Environmental

Temperature Range	0 ~ 55°C (Operating)	-20 ~ 80°C (Storage)
Humidity (Non-Condensing)	10 ~ 95% (Operating)	10~ 95% (Storage)

Physical Specification

Dimensions	59.6 x 50.95 x 3.25 (+/-0.15mm)
Weight	15g

Software

Driver	Win 2000/XP/Vista32/Vista64, Linux 2.6
Security	64/128/152-bits WEP, WPA, WPA2, Encryption TKIP/ AES, 802.1X, LEAP