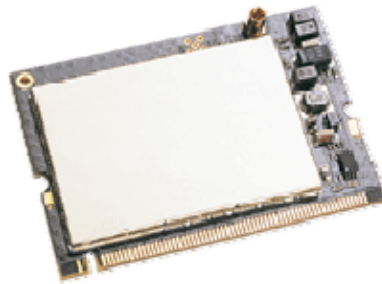




# WMIA-166AGH

## Feature

- Operates in the 802.11a/b/g 2.4/5GHz
- Chipset: Atheros AR5414 + AR5006XS
- Antenna: 1 x MMCX connector
- Host Interface: Mini PCI Type IIIB
- High power 400mW
- Enhanced wireless security: 64/128/152-bit WEP, WPA, WPA2, Encryption TKIP/AES, 802.1x, LEAF
- Wide temperature range (-20°C ~ +65°C)
- Support Windows 2000/XP/Vista, Linux driver



## 802.11a/b/g Dual-Band Mini PCI Module

**400mW High power Mini PCI Module (Atheros AR5414 + AR5006XS)**

### Reliable High-Power Embedded Application

SparkLAN WMIA-166AGH is a high power 802.11a/b/g Mini PCI module with Atheros AR5414 + AR5006XS chipsets. With the MMCX connector provided, WMIA-166AGH is the ideal solution for enabling wireless connection to devices, such as networking equipments, industrial computers, or automation machines.

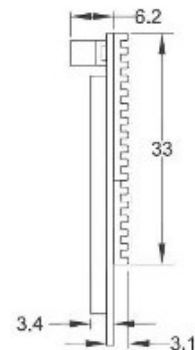
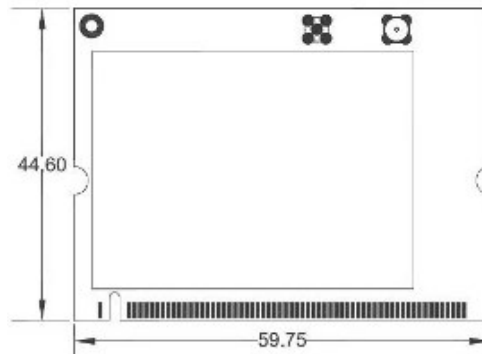
### Secure Wireless Connection

By advanced WPA security protocol and WEP encryption, without diluting the performance, WMIA-166AGH secure wireless computer networks and protect your own data while transit.

## Application

- Networking Equipment
- Industrial Computers
- Automation
- Medical Device
- POS (Point-of-Sale) System
- Self-Service KIOSK
- Gaming Machine
- Columiation electronics

### Mechanical Dimension (mm)





# WMIA-166AGH

## Related Product

- WMIR-168AG**  
 802.11a/b/g Dual-Band Mini PCI Module



- WMIA-123AG**  
 802.11a/b/g Dual-Band Mini PCI Module



## Ordering Info

- WMIA-166AGH**  
 802.11a/b/g Mini PCI Module

## Specifications

### Standard

802.11a/b/g

### Chipset

Mac/BB/RF      Atheros AR5414 + AR5006XS

### Host Interface

Mini PCI Type IIIB

### Radio

Antenna      1 x MMCX

Operating Frequency      802.11b/g: 2.412 ~ 2.472GHz  
                                          802.11a: 5.150 ~ 5.350GHz, 5.470 ~ 5.850GHz

Modulation      802.11a: OFDM  
                                  802.11b: CCK, DQPSK, DBPSK

Output Power      802.11a: 20dBm ± 1dBm  
                                  802.11b: 26dBm ± 1dBm  
                                  802.11g: 22dBm ± 1dBm

Receive Sensitivity      802.11b: -74dBm@11Mbps  
                                  802.11a/g : -74dBm@54Mbps

### Power consumption

Continue TX      Max 1200mA

Continue RX      Max 450mA

### Operating Voltage

DC 3.3V ± 5%

### Environmental

Temperature Range      -20 ~ 65°C (Operating)      -30 ~ 75°C (Storing)

Humidity (Non-Condensing)      5 ~ 90% (Operating)      5 ~ 95% (Storing)

### Physical Specification

Dimensions      60x45x5.5mm

Weight      <50g

### Software

Driver      Windows 2000/ XP/ Vista, Linux

Security      64/128/152-bit WEP, WPA, WPA2, Encryption TKIP/AES, 802.1x, LEAP