



# WMIA-166AG

## Feature

- Chipset: Atheros AR5006XS + AR5414
- Interface: Mini PCI Type III B
- Antenna: 2 x U.FL connectors (external)
- Up to 108Mbps data rate in Super AG Mode
- 64/ 128/ 152-bits WEP, WPA, WPA2, Encryption TKIP/ AES, 802.1x, LEAP
- Support Windows 2000/ XP/ Vista, Linux driver



## 802.11 a/b/g Mini PCI Module

*Atheros AR5006XS + AR5414A, Supporting Super AG Mode 108Mbps*

### Reliable Embedded Application

Combined with Atheros AR5006XS + AR5414 chipsets, SparkLAN WMIA-166AG, an 802.11a/b/g Mini PCI Module delivers speed-up available connection. The WMIA-166AG lets you connect seamlessly to both 2.4GHz (802.11b/g) and 5.0GHz (802.11a) wireless networks. Moreover, with the 2 U.FL provided, WMIA-166AG is the ideal solution for small devices, such as PDA or GPS receivers.

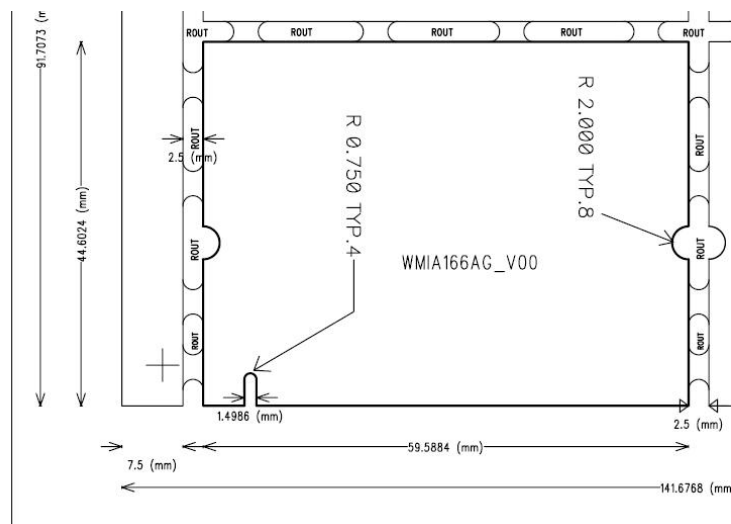
### Secure Wireless Connection

By advanced 64/128/152-bits WEP, WPA, WPA2, Encryption TKIP/ AES, 802.1x, LEAP, without diluting the performance, WMIA-166AG secure wireless computer networks and protect your own data during transmission.

## Application

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

### Mechanical Dimension (mm)

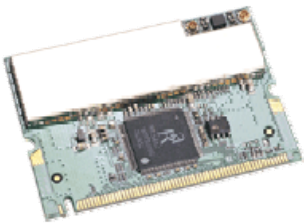




# WMIA-166AG

## Related Product

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



- WMIA-199N  
802.11a/b/g/n Dual-Band Mini PCI Module



## Ordering Info

- WMIA-166AG  
802.11a/b/g Mini PCI Module

## Specifications

### Standard

802.11a/b/g

### Chipset

Mac/BB/RF      Atheros AR5006XS + AR5414

### Host Interface

Mini PCI Type III B

### Radio

Antenna      2 x U.FL connectors (external)

Operating Frequency      802.11a: 5.15 ~ 5.85GHz  
802.11b: 2.400 ~ 2.484GHz  
802.11g: 2.400 ~ 2.484GHz

Modulation      802.11b: DSSS  
802.11a/g: OFDM

Output Power      802.11a: 13dBm ± 1.5dBm@54Mbps  
802.11b: 18dBm ± 1.5dBm@11Mbps  
802.11g: 15dBm ± 1.5dBm@54Mbps

Receive Sensitivity      802.11a: -68dBm±2dBm@54Mbps  
802.11b: -88dBm±2dBm@11Mbps  
802.11g: -68dBm±2dBm@54Mbps

### Power consumption

Continue TX      Max 510mA

Continue RX      Max 280mA

### Operating Voltage

DC 3.3V ± 5%

### Environmental

Temperature Range      0 ~ 55°C (Operating)    -20 ~ 80°C (Storing)

Humidity (Non-Condensing)      10 ~ 90% (Operating)    5 ~ 90% (Storing)

### Physical Specification

Dimensions      60 x 45 x 4mm

Weight      20g

### Software

Driver      Windows 2000/ XP/ Vista, Linux

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