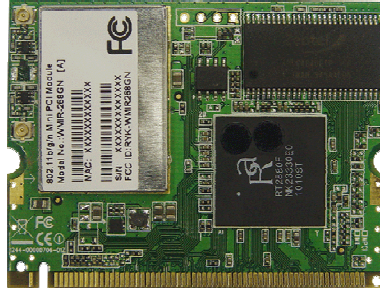




# WMIR-268GN

## Feature

- Chipset: Ralink RT2880 + RT2820
- Host Interface: Mini PCI Type IIIA with MII
- Antenna: 2 antennas to support 2T2R
- Output Power up to 18dBm
- Enhanced wireless security: 64/128-bits WEP, WPA, WPA2
- Linux



## 802.11GN Single-Band Mini PCI Module

*Ralink RT2880 (MIPS CPU) + RT2820 Solution with MII Interface, 2T3R*

### Wider Coverage by MIMO 2T2R Technology

The SparkLAN WMIR-268GN incorporates the latest MIMO 2T2R technology for stable networking; it supports up to 300Mbps downstream and 300Mbps upstream rates, which is an ideal choice of integrating with high performance AP or networking equipment.

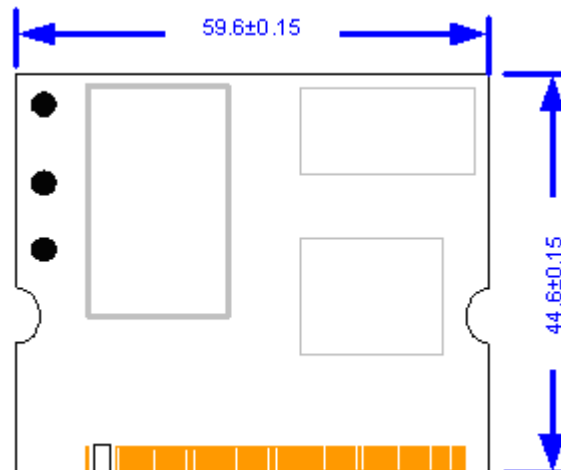
### Enterprise level security

With advanced security encryptions, such as 64/128-bits WEP, WPA, WPA2, the SparkLAN WMIR-268GN helps creating a secure and reliable wireless network. This device is the best choice for you to quickly and easily integrate with your wireless enabled applications.

## Application

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

### Mechanical Dimension (mm)

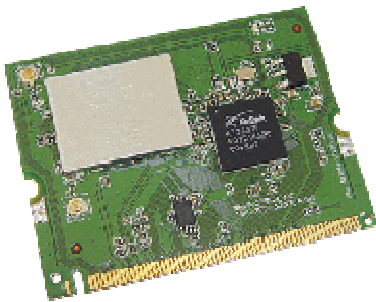




# WMIR-268GN

## Related Product

- WMIR-278GN  
802.11b/g/n Mini PCI Module



## Ordering Info

- WMIR-268GN  
802.11b/g/n Mini PCI Module

## Specifications

### Standard

802.11b/g/n

### Chipset

CPU/Mac/BB RT2880 (MIPS CPU) + RT2820

### Host Interface

Mini PCI, Type IIIA

### Radio

Antenna 2 x U.FL connectors, 2T2R

Operating Frequency 802.11b/g/n ISM Band: 2.400 ~ 2.4835GHz

Modulation  
802.11b: DSSS (DBPSK, DQPSK, CCK)  
802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)  
802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

Peak Output Power  
802.11b : 23.45dBm@11Mbps  
802.11g : 24.58dBm@54Mbps  
802.11n HT20 : 27.72dBm@MCS8  
802.11n HT40 : 25.70dBm @MCS8

Receive Sensitivity  
802.11b : -87dBm ± 2dBm @11Mbps  
802.11g : -76dBm ± 2dBm @ 54Mbps  
802.11n HT20 : -75dBm ± 2dBm @ MCS7  
802.11n HT40 : -72dBm ± 2dBm @ MCS7

### Power consumption

Continue TX Max 836mA

Continue RX Max 691mA

### Operating Voltage

DC 3.3V ± 10%

### Environmental

Temperature Range 0 ~ 50°C (Operating) -20 ~ 80°C (Storing)

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

### Physical Specification

Dimensions 59.6mm x 44.60mm x 3.5mm (±0.5mm)

Weight 7 g

### Software

Driver Linux

Security 64/128-bits WEP, WPA, WPA2

## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This module is intended for OEM integrator. The OEM integrator is still responsible for the FCC compliance requirement of the end product, which integrates this module.

20cm minimum distance has to be able to be maintained between the antenna and the users for the host this module is integrated into. Under such configuration, the FCC radiation exposure limits set forth for an population/uncontrolled environment can be satisfied.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

The final end product must be labeled in a visible area with the following " Contains TX FCC ID: **RYK-WMIR268GN**".

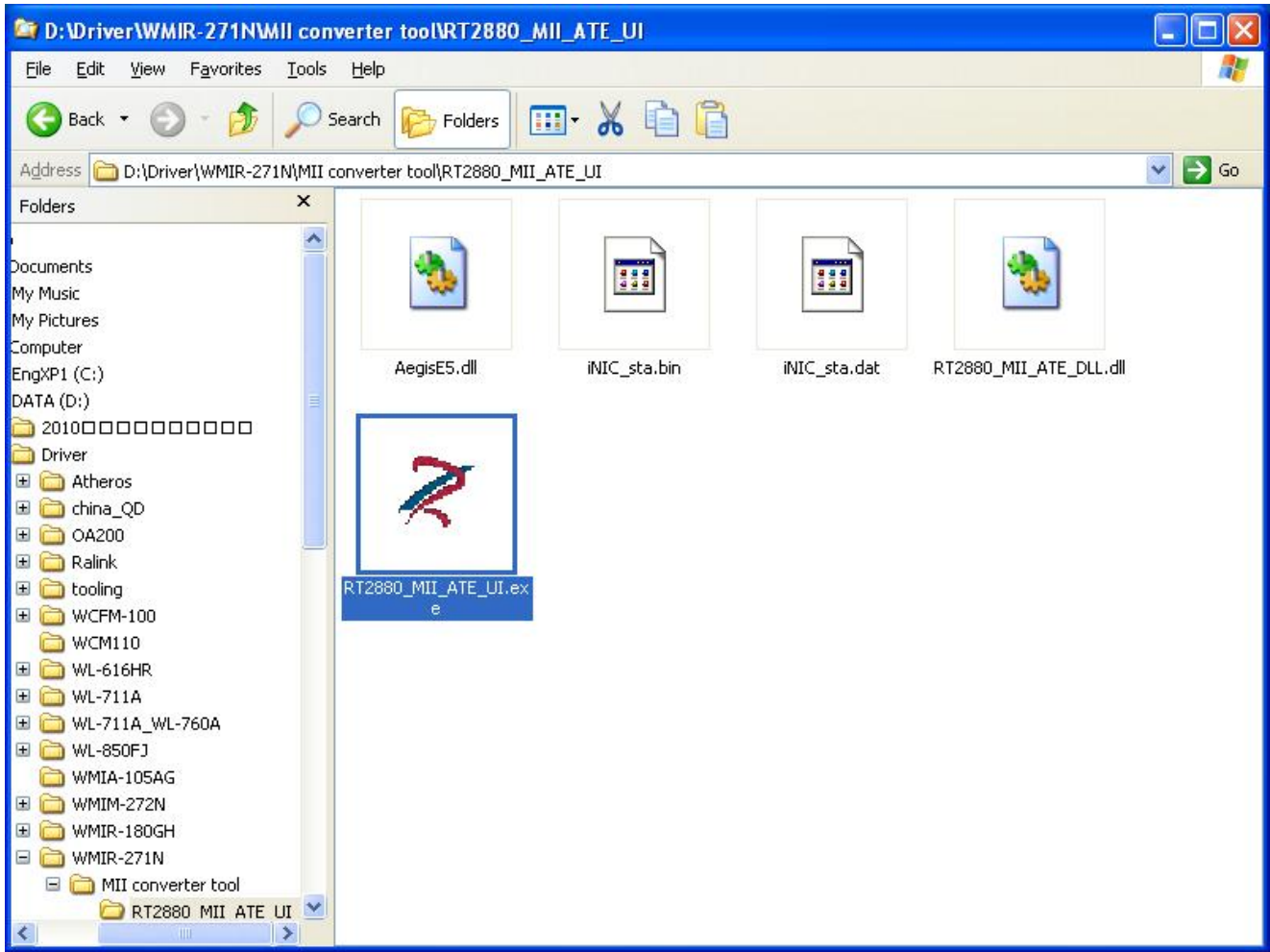
**WMIR-268GN**  
**Mini PCI Module**

***Quick Installaton Guide***

**Version 1.0**

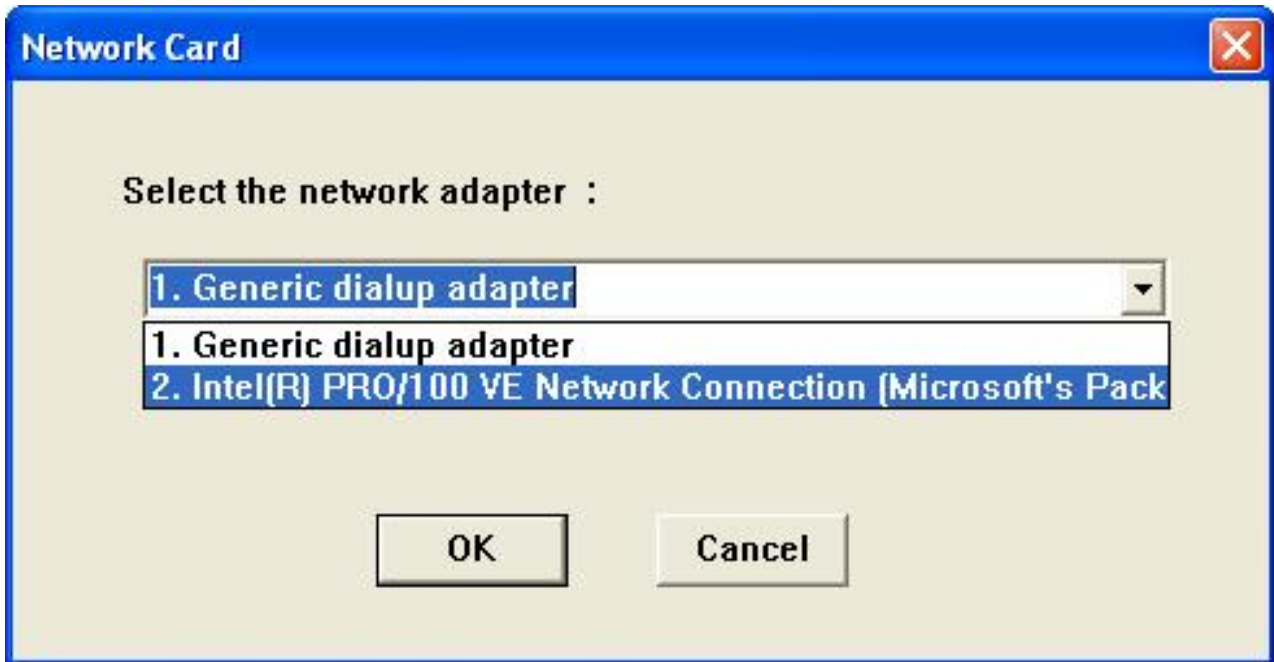
# Setup 1.

Find out the Driver, and setup RT2880\_MII\_ATE\_UI.exe



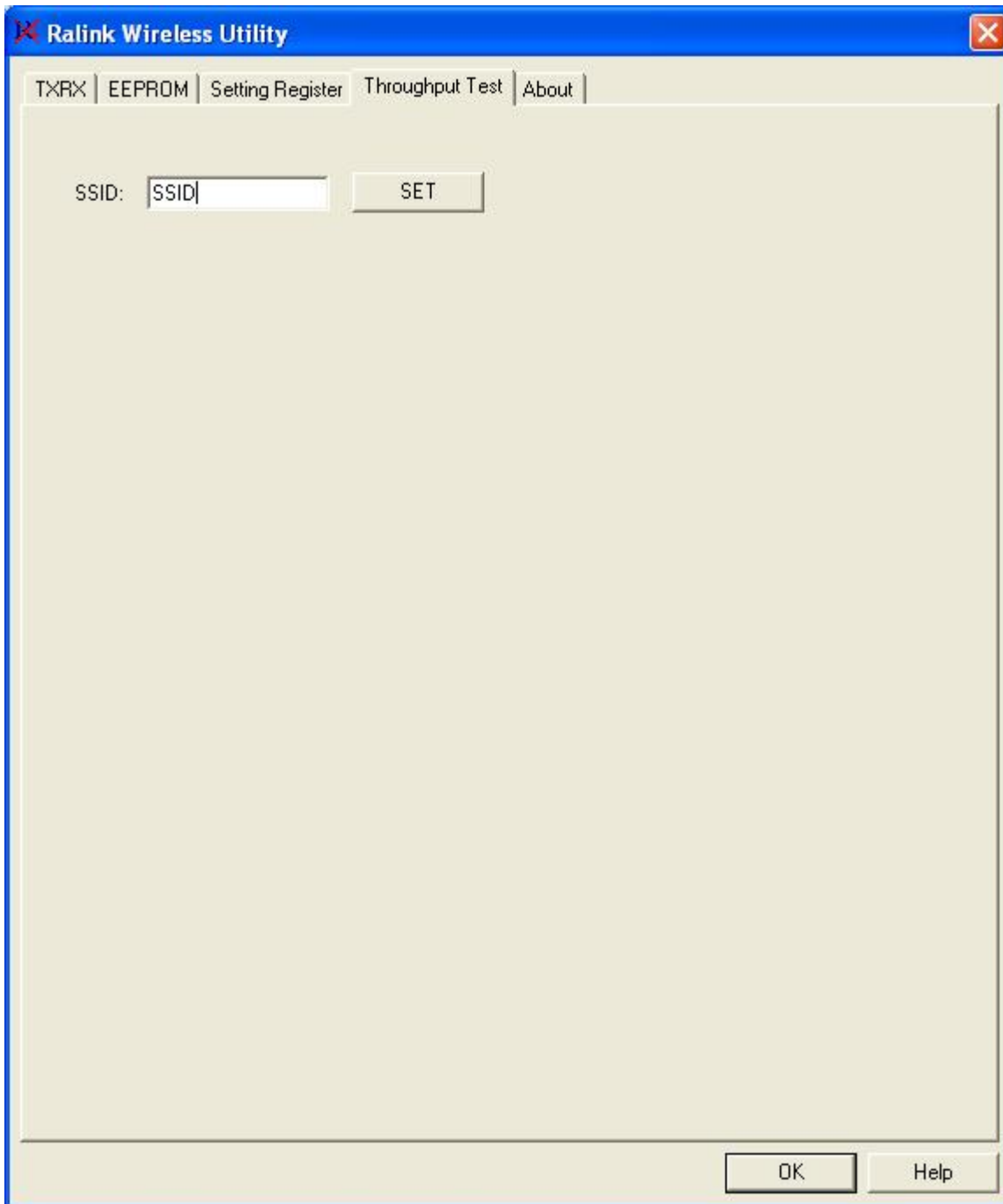
## Setup 2.

Choose Ethernet Card



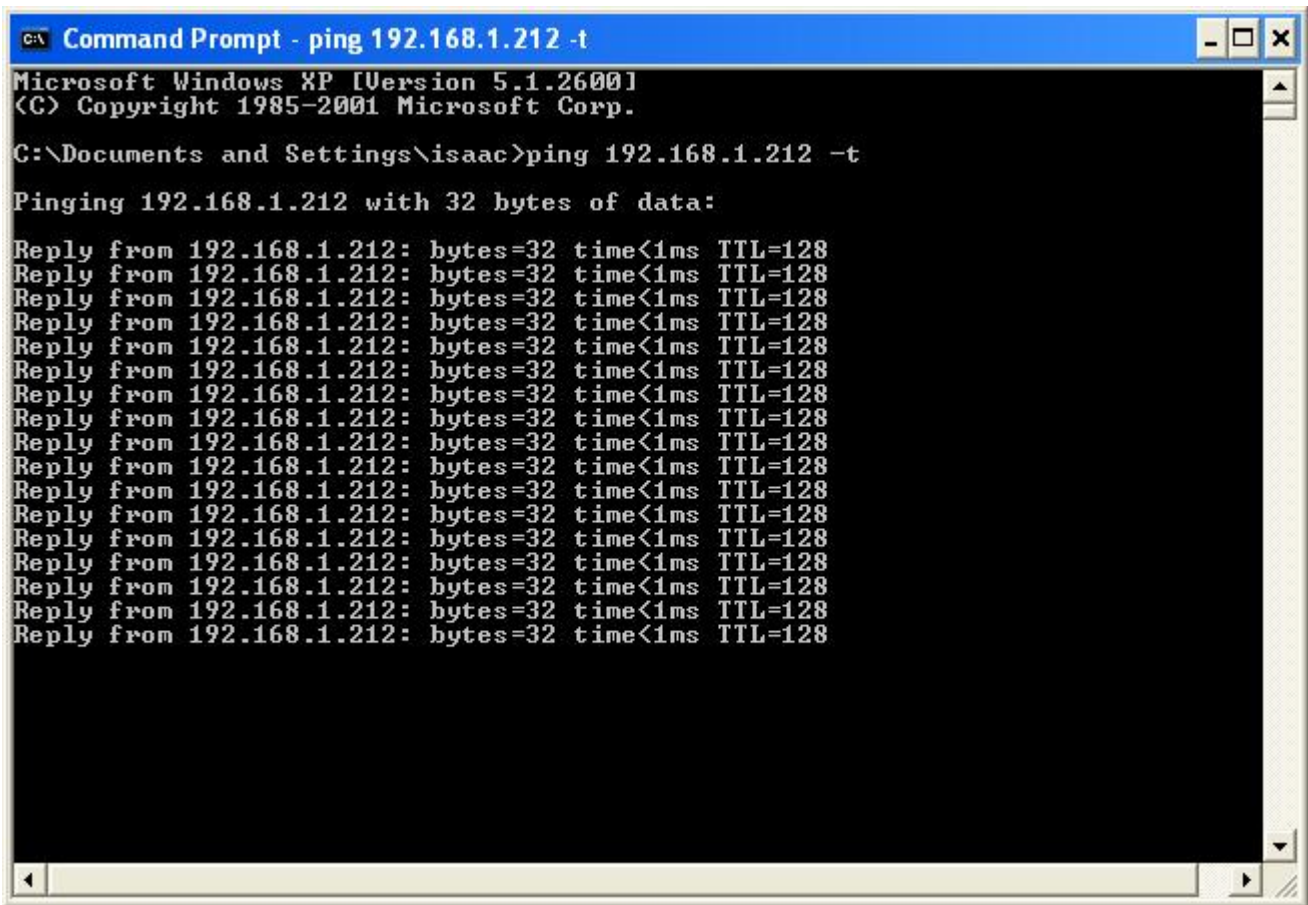
## Setup 3.

Select "Throughput Test" tab, and enter [SSID], press Set, then press OK



## Setup 4.

Ping ipconfig to see if the module is functioning



Antenna Info.

Ant. No.	Category	Type	Model	Connector Type	Gain (dBi)
1	External	GSM&WIFI Antenna	EPH-501	FAKRA SMB CRIMB JACK	-1.14