



**LINKSYS®**  
A Division of Cisco Systems, Inc.  
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# Cisco-Linksys

## WRV54GP2M

Wireless-G mini PCI Adapter

**Release 1.0**

**Date:**

**Author:**



## 1. Introduction

Wireless-G is the upcoming 54Mbps wireless networking standard that's almost five times faster than the widely deployed Wireless-B (802.11b) products found in homes, businesses, and public wireless hotspots around the country — but since they share the same 2.4GHz radio band, Wireless-G devices can also work with existing 11Mbps Wireless-B equipment.

Wireless-G mini PCI Adapter has both standards built in. It is only used in embedded system made by Linksys such as WRV54GP2 etc.

## 2. Product Specifications

### Key Component

- 32bit 3.3V mini PCI Interface (Type B)
- MAC/BBS INPROCMM IPN2220

### Wireless Features

- Complies with IEEE 802.11g standards, and backwards compatible with IEEE 802.11b products
- Operates in 2.4Ghz (2.412 ~ 2.462) frequency spectrum with throughput of up to 54 Mbps
- Support channels
  - ◆ 11 channels (USA, Canada)
  - ◆ 13 channels (Europe)
  - ◆ 14 channels (Japan)
- Transmission rate:
  - ◆ 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
  - ◆ 802.11b: 11, 5.5, 2 and 1 Mbps network
- Support 64-bit, 128-bit WEP encryption
- Support WPA

### RF Spec

- Receive sensitivity
  - 71dBm @ 54Mbps OFDM
  - 85dBm @ 11Mbps CCK
- RF output power
  - Typical 15dBm @ 54Mbps OFDM
  - Typical 18dBm @ 11Mbps CCK



### **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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

#### **IMPORTANT NOTE:**

##### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

##### **This device is intended only for OEM integrators under the following conditions:**

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

##### **End Product Labeling**

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users (for example : Wireless 11G mini-PCI module ). The final end product must be labeled in a visible area with the following: "Contains TX FCC ID: Q87- WRV54GP2M ".



The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the users manual of the end product which integrate this module.

The users manual for OEM integrators must include the following information in a prominent location " IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CyberTAN declared that WRV54GP2M is limited in CH1~11 by specified firmware controlled in USA.

Canada (IC):

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

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