

FCC Statement

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

IEEE 802.11 b/g WLAN MiniPCI Card 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.

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 needed.

Consult the dealer or an experienced radio/TV technician for help.



CAUTION:

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. 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:

The antenna must be installed such that 20 cm is maintained between the antenna and users. For laptop installations, the antenna must be installed to ensure that the proper spacing is maintained in the event the users places the device in their lap during use (i.e. positioning of antennas must be placed in the upper portion of the LCD panel only to ensure 20 cm will be maintained if the user places the device in their lap for use) and The transmitter module may not be co-located with any other transmitter or antenna. As long as the 2 conditions above are met, further transmitter testing 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 devices where the antenna may be installed such that 20 cm may be maintained between the antenna and users (for example access points, routers, wireless ASDL modems, certain laptop configurations, and similar equipment). The final end product must be labeled in a visible area with the following: "Contains TX FCC ID:M4Y-0XG602 ".

RF Exposure Manual Information That Must be Included

The users manual for end users 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."

Additional Information That Must be Provided to OEM Integrators

The end user should NOT be provided any instructions on how to remove or install the device.

Service Center in U.S.A

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1. Introduction

IEEE 802.11 b/g WLAN MiniPCI Card is the perfect solution for your wireless network applications based on the IEEE 802.11g standard offering a data rate of 54Mbps in a wireless LAN environment.

XG-602MB is designed for Laptop or Tablet PC gives you wireless access the web and network resource without the wire.

XG-602MB provides high-speed access to network resources and has built-in 40/64-bit, 128 bit and 256 bit of WEP (Wired Equivalent Privacy) data encryption. With Direct Spread Spectrum Signaling (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM), domain access control, WEP encryption and group security, the modules will safeguard all your wireless data transmissions from your nosy neighbors.

XG-602MB allows you to take full advantage of your devices mobility with access to real-time information and online services anytime and anywhere.

2. Feature

- . Complies with IEEE 802.11b/g Standard for 2.4GHz Wireless LAN.
- . Works with All Existing Network Infrastructures.
- . Compatible with Wi-Fi Wireless Products and Services
- . Capable of up to 256-Bit WEP Encryption.
- . Freedom to Roam While staying Connected
- . 54 Mbps High-Speed Transfer Rate
- . Two UF-L Connectors for External Antenna
- . Support Antenna diversity for Better Sensitivity
- . Lower Power Consumption.

3. Specification

HOST INTERFACE			
33MHz 32-bit MiniPCI, Type III A			
RADIO			
Chipset	Globespan Virata Javelin Chipsets		
Antenna	Two U.FL Connectors		
Frequency	USA (FCC) 11 Channels: 2.412GHz~2.462GHz		
	Europe (ETSI) 13 Channels : 2.412GHz~2.472GHz		
	Japan (TELEC) 13 Channels : 2.412GHz~2.483GHz		
Modulation	11g Orthogonal Frequency Division Multiplexing (64QAM, 16QAM, QPSK, BPSK)		
	11b Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)		
Output Power	11g	64QAM	14
		16QAM	15
		QPSK	16
		BPSK	17
	11b	DBPSK,DQPSK,CCK	
Data Rate	11g mode: 54, 48, 36, 24, 18, 12, 9, 6 Mbps		
	11b mode: 11, 5.5, 2, 1 Mbps		
Power Consumption	11g: TX: 480mA; RX: 340mA (max)		
	11b: TX: 430mA; RX: 340mA (max)		
Voltage	3.3V±5%		
PHYSICAL SPECIFICATIONS			
Dimension	59.6mm(L)*50.8mm(W)*3.25mm(H)		
Weight	<15g		
ENVIRONMENTAL SPECIFICATIONS			
	Temperature (Ambient)		Humidity (non-condensing)
Operating	0~55℃		5~80%
Storage	-10~65℃		5~80%
SUPPORTED OPERATING SYSTEMS			
Win98SE/ME/2000/XP			
SECURITY			
WEP	64/128-bit WEP Encryption		

4. Hardware Installation

The following sections in this chapter describe how to install XG-602MB Module

4.1. Installation Overview

XG-602MB wireless module is design for Laptop or Tablet PC only.

4.2. Safety Recommendations

The safety guidelines are as follows:

- λ Keep the board area clear and dust-free before, during, and after installation.
- λ Keep tools away from walk areas where you and others could fall over them.
- λ Do not wear loose clothing or jewelry, such as earrings, bracelets, or chains, that could get caught in the board.
- λ Wear safety glasses if you are working under any conditions that might be hazardous to your eyes.
- λ Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.
- λ Never attempt to lift an object that is too heavy for one person to handle.

4.3. Maintaining Safety with Electricity

Warning: Before working on a board or working near power supplies, unplug the power cord on AC units; on DC units, disconnect the power at the circuit breaker.

Follow these guidelines when working on equipment powered by electricity:

- λ Do not work alone if potentially hazardous conditions exist anywhere in your work space.
 - λ Never assume that power is disconnected from a circuit; always check the circuit.
- extension cables, frayed power cords, and missing safety grounds.
- λ If an electrical accident occurs, proceed as follows:
 - Use caution; do not become a victim yourself.
 - Disconnect power from the system.
 - If possible, send another person to get medical aid. Otherwise, assess the condition of the victim and then call for help.
 - Determine if the person needs rescue breathing or external cardiac compressions; then take appropriate action.

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4.4. Installing a XG-602MB

- λ Remove the XG-602MB module from its protective packaging.
- λ Avoiding Electrostatic Discharge

Before you install the XG-602MB module, ground yourself by touching a piece of metal to avoid electrostatic discharge (ESD). You should also take the following precautions to prevent damage to the XG-602MB module:

- λ Keep the XG-602MB module in its antistatic-shielded bag until you are ready to install it.
- λ Handle the XG-602MB module by its edges.
- λ Ensure the connector is connected to above Model's board tightly.