

MT-WN713NM

150M WIRELESS USB MODULE

User's Manual

Release 0.1

Federal Communication Commission Interference Statement

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.

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.

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.

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

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 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

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. The final end product must be labeled in a visible area with the following: "Contains FCC ID: ZBXMT-WN713NM ". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

Manual Information To the End User

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 user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

Introduction

The MT-WN713NM which is based on the RT5370, is a 802.11 b/g/n wireless embedded Mini-PCI module for AP/ Router + AP. MT-WN713NM will be a RF module of AP board. It has greater throughput at longer range. The MT-WN713NM is a green product.

Features

- Compatible with IEEE 802.11n draft 2.0 standard to provide up to 150Mbps data rate.
- Compatible with IEEE 802.11g standard to provide up to wireless 54Mbps data rate
- Compatible with IEEE 802.11b standard to provide up to wireless 11Mbps data rate
- Operation at 2.4 ~ 2.5GHz frequency band to meet worldwide regulations
- Dynamic data rate scaling at 6, 9, 12, 18, 24, 36, 48, 54 for IEEE 802.11g.
- Dynamic data rate scaling at 1, 2, 5.5, and 11Mbps for IEEE 802.11b
- Maximum reliability, throughput and connectivity with automatic data rate switching
- Support wireless data encryption with 64/128-bit WEP for security
- Support infrastructure networks via Access Point and ad-hoc network via peer-to-peer communication
- Support WEP, 802.1x, WPA and WPA2 enhanced security
- Friendly user configuration and utilities
- Drivers support Windows 2K, XP 32/64-bit, Vista 32/ 64-bit, MAC OS and Linux
- Support external WPS button to connect Access Point easily
- RoHS compliant
- Integrated antenna
- Support Xlink global networking gaming
- Interoperability, driver backward compatibility

Installation

- Turn on the computer and Insert the Alpha WUS-N10 Driver CD in the CD-ROM drive
- When the auto run screen appears, click Install Drivers.
The Install Shield Wizard window will appear.
- By default setup will install to the default location: To install to a different location click Browse and specify the location.
- Select the Program Files folder location
- The Wireless Connection Wizard will now appear.
- To connect to your network using the WPS push button configuration method, click the virtual button as shown in the screenshot.

Usage Guidelines for FCC Compliance

Antenna

In order to maintain compliance with FCC regulations, This module has been tested with the following antennas:

| Part Number | Antenna Type | Antenna Gain |
|--------------|--------------|--------------|
| ANT-2400-01A | PCB | 1.3 dBi |

Module Modification

The module must not be physically altered in any way. If any connections are made to the module that bypass the module pins, socket, or antenna connector, the FCC modular certification cannot be inherited.

End Product Labeling Requirements

Pursuant to FCC public notice DA 00-1407, the end product must be labeled on its exterior with the following verbiage:

“Contains FCC ID: ZBXMT-WN713NM”

Additional FCC Testing Requirements

While the module’s FCC certification can be inherited (presuming the guidelines are met), additional testing will be required to achieve full FCC compliance for your end-product. The integrator is required to perform unintentional radiator testing on the final product per FCC sections 15.107 and 15.109.

Additional, product-specific testing might be required. Please contact the FCC regarding regulatory requirements for your application.

RF exposure compliance

The Module should be install on fixed host. Restriction for mobile host.