

Introduction

1. Introduction

The WN6401C is an IEEE 802.11a/b/g standard compatible MiniPCI PC Card, which supports high data rate up to 54Mbps (for 802.11a or g) over the Ethernet speed, while remaining backward compatible to the existing installed base of 802.11b over 15 million Wi-Fi systems worldwide. WN6401C will enable a next generation of high-data-rate platforms for operation in the 2.4 GHz band that deliver a five-fold speed increase. In addition, a 30 percent range advantage and lower power consumption are realized compared to systems operating in the 5 GHz spectrum. The cost and performance advantages will make it an ideal solution for high bandwidth enterprise applications, such as wireless video conferencing and large file transfers, as well as advanced home networking applications such as multi-channel CD-quality audio and DVD-quality video streaming. WN6401C incorporates the 802.11g Draft Standard's 7.0 mandatory modulation schemes—Complementary Code Keying (CCK), which is used in 802.11b, and Orthogonal Frequency Division Multiplexing (OFDM), used in 802.11g or 11a. Using CCK ensures backward-compatibility with the installed Wi-Fi 802.11b base, while OFDM provides the speed required for today's high-bandwidth applications.

1.1 Product Features

- ◆ High speed for wireless LAN connection, up to 54 Mbps data rate in 11a or 11g standard.
- ◆ Support for 802.11a or 802.11g with enhanced “turbo mode” up to 108Mbps for high data throughput access.
- ◆ Backward compatible to the existing IEEE 802.11b WLAN infrastructure.
- ◆ An user-friendly utility to configure SSID, security setup and site survey.
- ◆ Wireless data encryption with 64, 128 encryption for security.
- ◆ Support for WPA.
- ◆ Hardware AES Accelerator.
- ◆ Built-in antenna connectors.
- ◆ Firmware upgradeable by only changing driver.

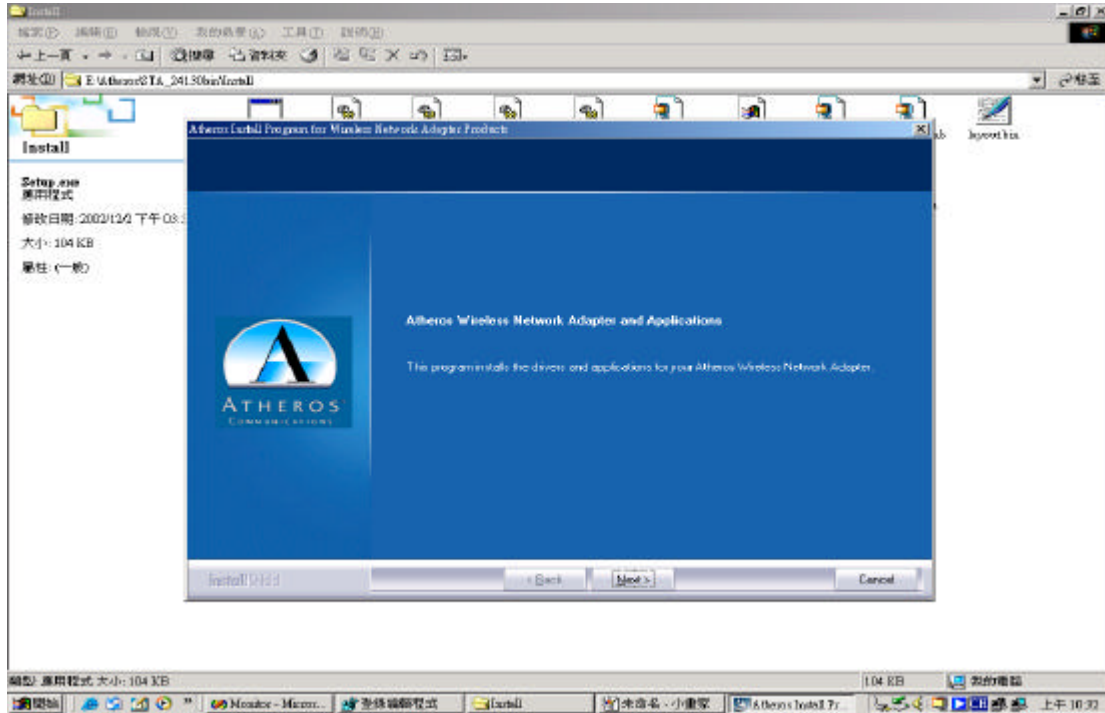
1.2 Applications

- ◆ Home networking for device sharing.
- ◆ Wireless multimedia.
- ◆ Wireless office for extension Ethernet range.
- ◆ Mobile networking for notebook PC, PDA, Web Pad or Wireless Gateway Built-

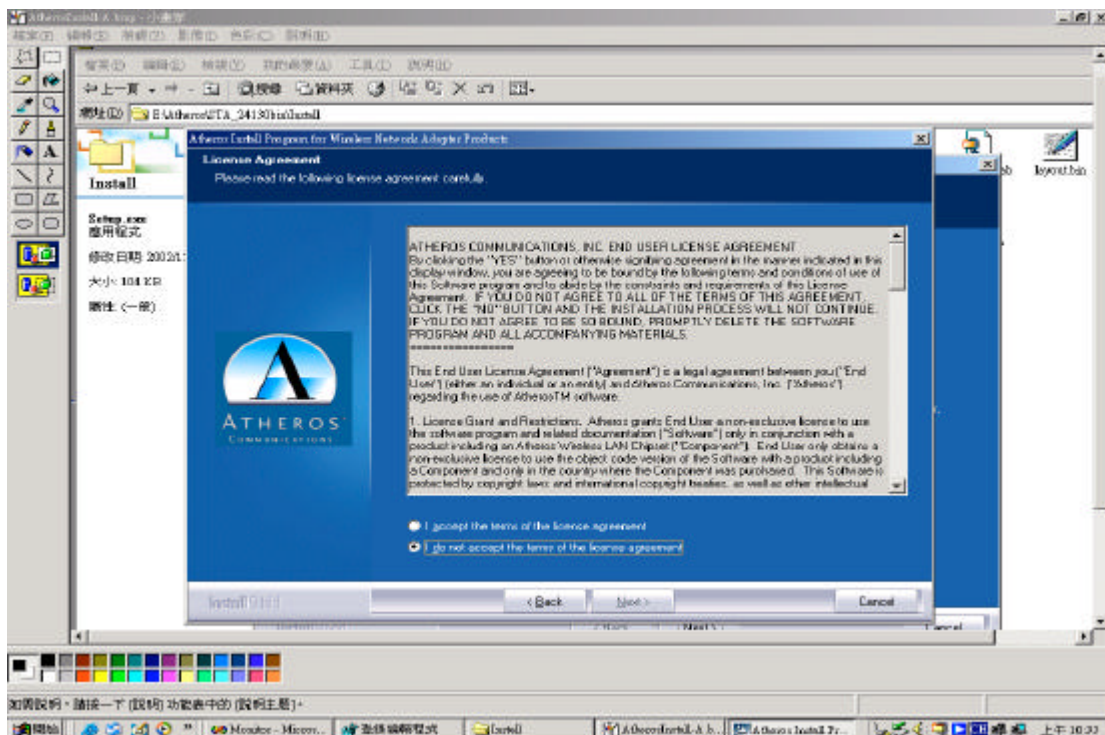
in Application.

WN6401C Installation Guide

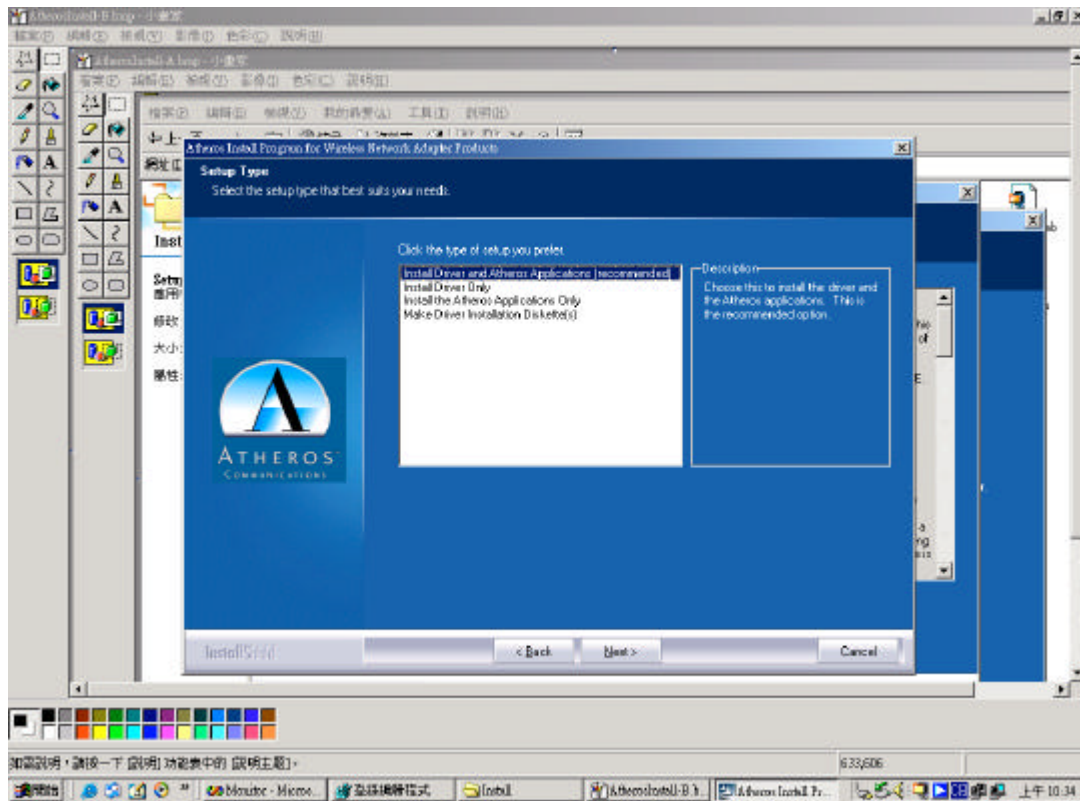
1. Execute Setup.exe. Click “Next” button.



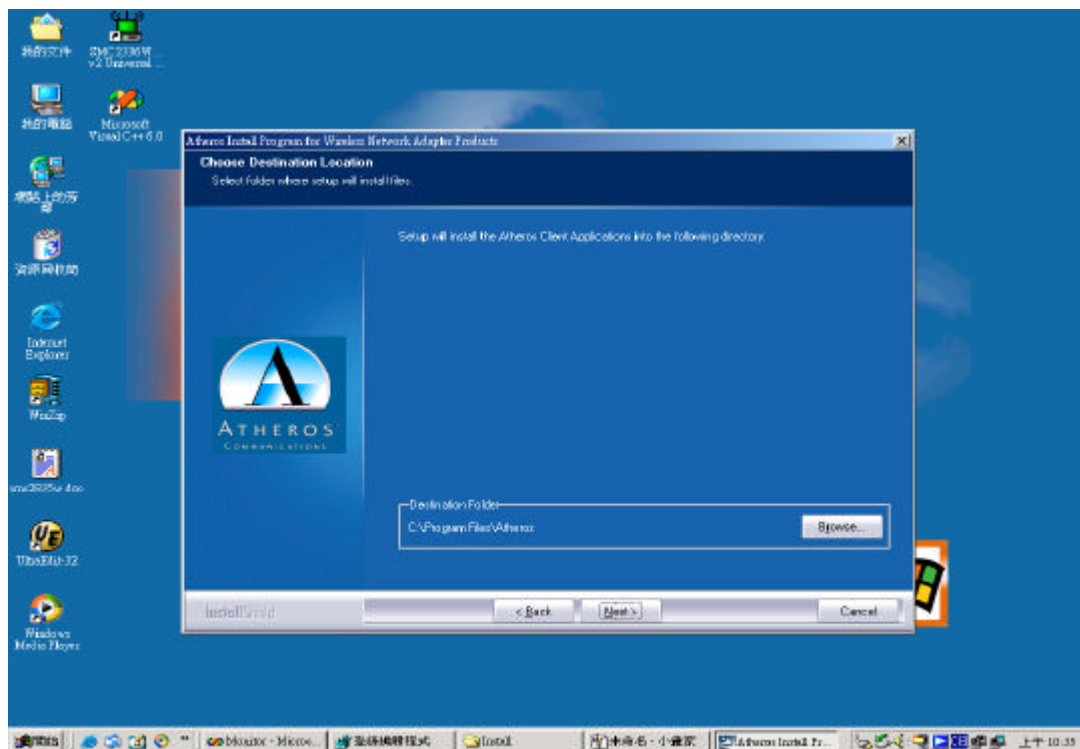
2. Select “I accept the terms of license agreement”. Click “Next” button.



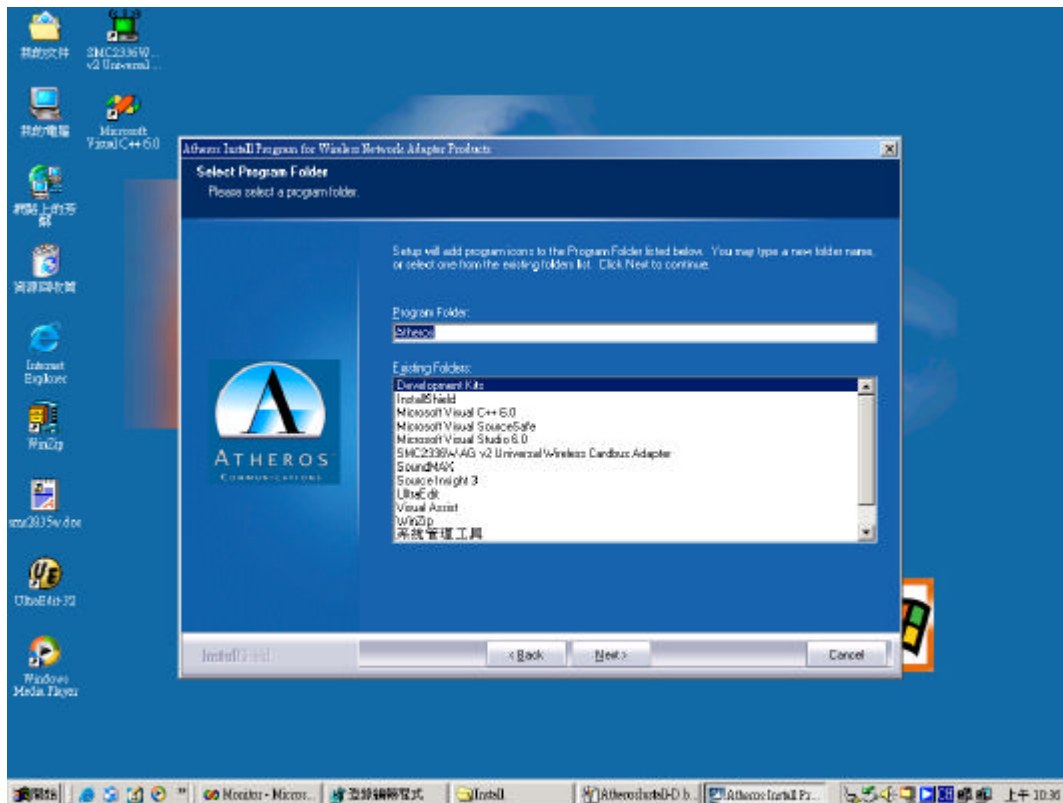
3. Select “Install Driver and Atheros Applications (recommended). Click “next” button.



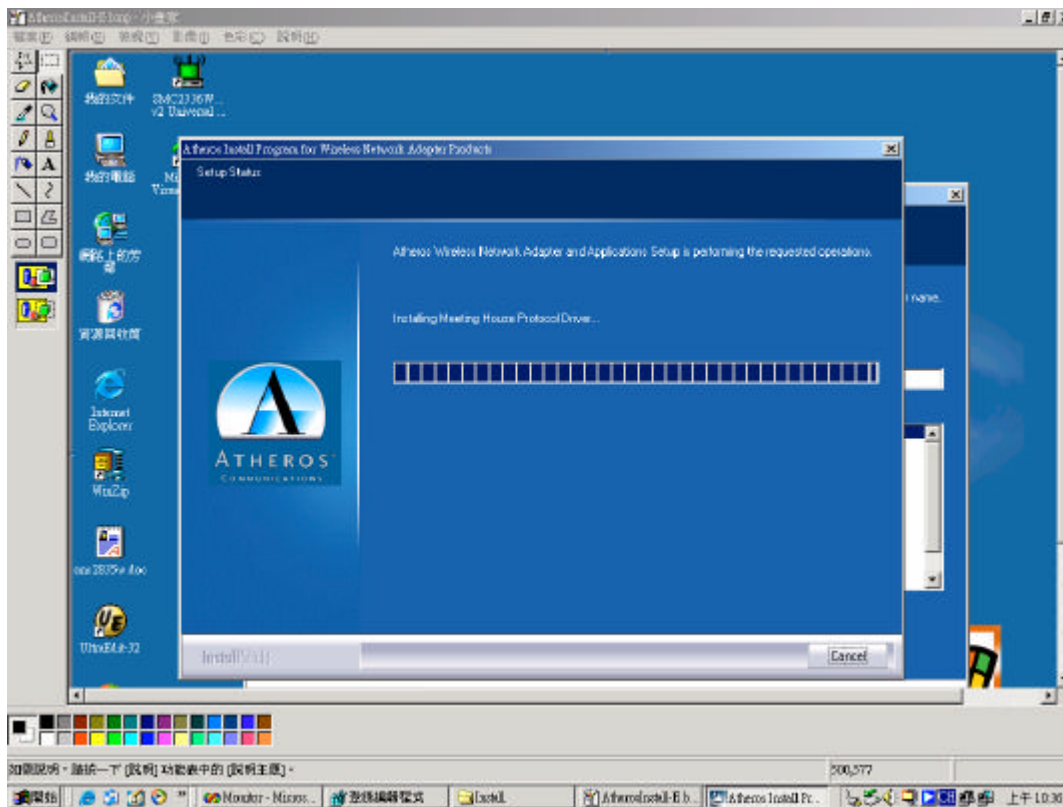
4. Use the default install directory. Click “Next” button.



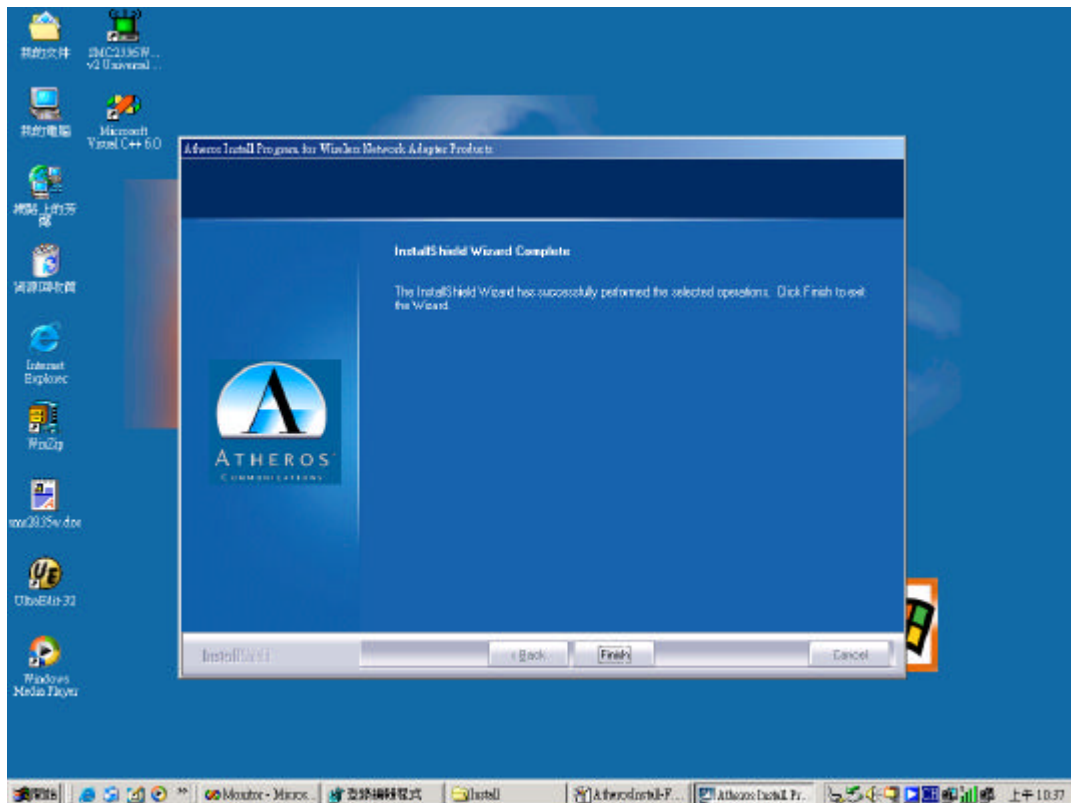
5. Use the default program folder. Click “Next” button.



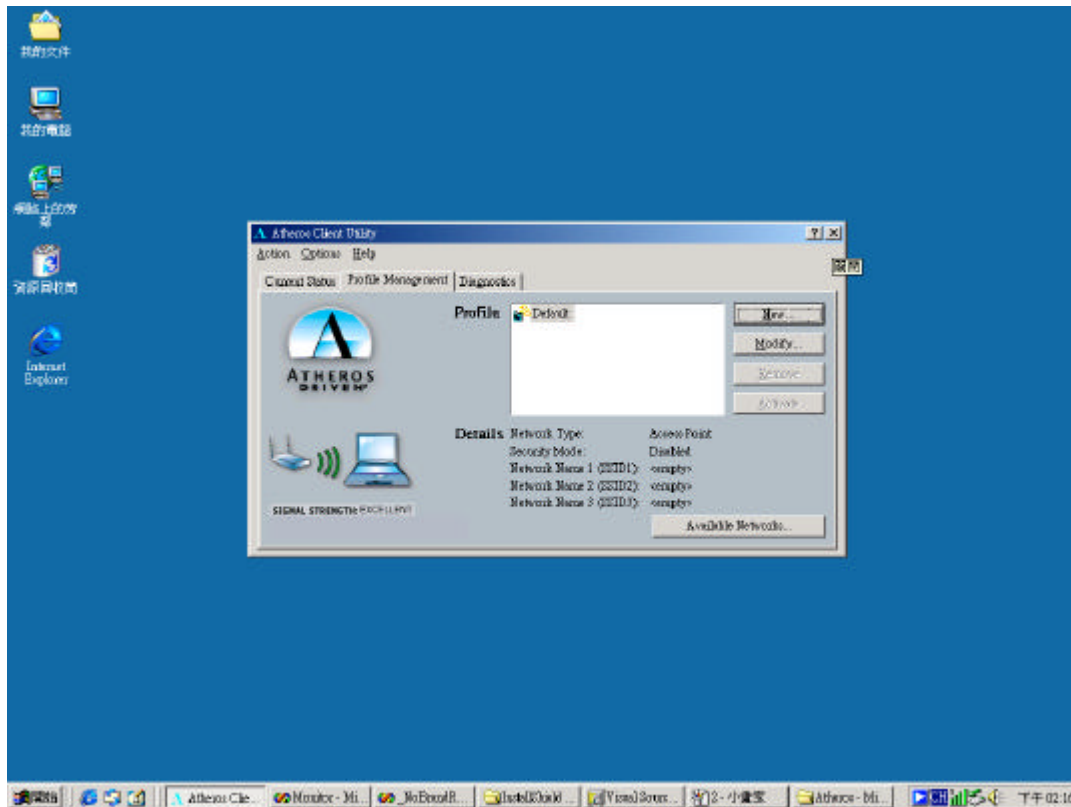
6. Installation begins.



7. Then click “Finish” to end.



8. Then You may use the utility.



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 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 antenna should be integral if the end device is intended to be operated in 5.15 ~ 5.25GHz frequency range.

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 . The final end product must be labeled in a visible area with the following: "Contains TX FCC ID: RAXWN6401CARC" .

Manual Information That Must be Included

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 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" .

If the end product integrating this module is going to be operated in 5.15 ~ 5.25GHz frequency range, the warning statement in the user manual of the end product should include the restriction of operating this device in indoor could void the user's authority to operate the equipment.

Certification

CE Mark

Emissions

FCC Class B, ETSI 300.328, C-Tick, ICES-003

EN55022 (CISPR 22) Class B

EN55024, IEC 61000-4-2/-3

Safety: EN60950