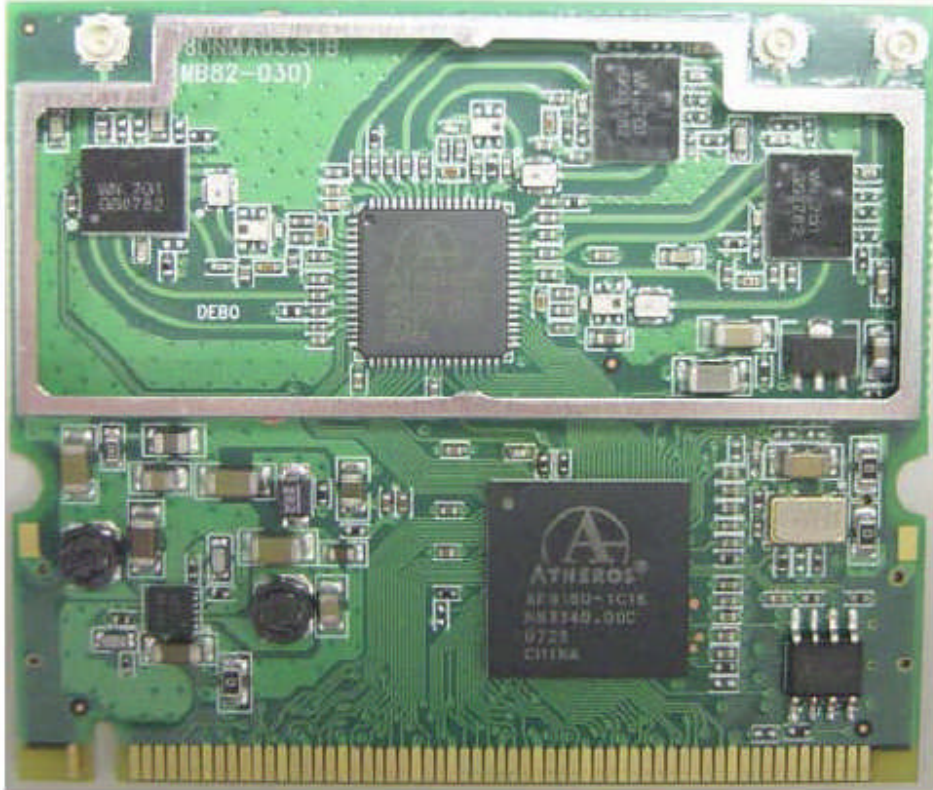**WLAN a/n mini-PCI Module**

Model # DNMA-83 User Manual
Version: 2.0
October, 2009

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.

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

IMPORTANT NOTE - US:
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 a 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.

USERS MANUAL OF THE END PRODUCT - US:

In the user's manual of the end product, the end user has to be informed to keep at least 20cm separation with the antenna while this end product is installed and operated. The end user has to be informed that the FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied. The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment. If the size of the end product is smaller than 8x10cm, then additional FCC part 15.19 statement is required to be available in the user's manual: This device complies with Part 15 of 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.

LABEL OF THE END PRODUCT - US:

The final end product must be labeled in a visible area with the following "
Contains FCC ID: RTP-DNMA83S".

If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of 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.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device and its antenna(s) must not be co-located or operation in
conjunction with any other antenna or transmitter.

To reduce potential radio interference to other users, the antenna type and
its gain should be so chosen that the equivalent isotropically radiated power
(e.i.r.p) is not more than that permitted for successful communication.

IMPORTANT NOTE - CANADA:
The OEM integrator is still responsible for the IC 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 IC RSS-102 radiation exposure limits set forth for a 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.

USERS MANUAL OF THE END PRODUCT - CANADA

In the user's manual of the end product, the end user has to be informed to
keep at least 20cm separation with the antenna while this end product is
installed and operated. The end user has to be informed that the IC radio-frequency exposure guidelines
for an uncontrolled environment can be satisfied. The end user has
to also be informed that any changes or modifications not expressly approved
by the manufacturer could void the user's authority to operate this equipment.
IC statement is required to be available in the user's manual: This Class B
digital apparatus complies with Canadian ICES-003. 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.

LABEL OF THE END PRODUCT - CANADA:

The final end product must be labeled in a visible area with the following "
Contains IC : 4891A-DNMA83S.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme á la norme NMB-003 du
Canada.

Driver/Utility Installation / Uninstallation

Installation

Note! The Installation Section in this User Manual describes the first-time installation
for Windows. To re-install the driver, please first uninstall the previously
installed driver.

Follow the steps below to complete the driver/utility installation:

1. Insert the **Installation Software CD** into the CD-Rom Drive.
2. Click **"Next"**.
3. Read the **License Agreement** and click **"Yes"**.
4. Click **"Next"** to continue or click **"Browse"** to choose a destination folder.
5. Click **"Next"**.
6. 6. Click **"Yes"** to create a shortcut icon on your desktop.
7. Click **"Finish"**.
8. You should now see a shortcut icon on your desktop.

Connecting to an Existing Network
1. Double click the shortcut icon of the mini-PCI Module on the desktop,
2. and the Configuration window appears.
3. Click on the **Refresh** button to list all available networks.
   Note! To automatically connect to the network with the strongest signal, select **Enable Smart Selection**. **Any** displays in Profile List.
   From the list of "Available Networks", choose one network by double clicking the **Network Name**. One of the following dialog boxes appears. Click **"Yes"** to continue.
4. If the chosen network has security enabled, the **Security** tab displays. Select the security option used by the network. Contact the network administrator for the correct settings.

   If selecting **WPA** or **802.1X**, select the EAP type, then click on the **Configure** button to select the certificate.

5. If selecting **WPA-PSK**, click on the **Configure** button to enter the PassPhrase.
   If selecting **Pre-Shared Key**, click on the **Configure** button to enter the correct Encryption Keys**.**
   For WEP key, please contact with the MIS administrator.
6. Click on **OK** (or **Apply** if using the other tabs) when done to save the settings.
   Once connected (the icon or in front of the name of the Connected Network), you can check the signal strength from the icon in the Windows System Tray.

Additional Note for Windows XP

In Windows XP, it is recommended that you use the mini-PCI Module Configuration Utility. Before using the Utility, please follow the steps below to disable the Windows XP Zero Configuration:

Option 1:
1. Double click the shortcut icon to open the Utility.
2. From the Windows System Tray, you should see the signal icon. Right-click it and select "Disable Zero-Configuration".

Option 2:
1. Go to "Control Panel" and double click "Network Connections".
2. Right-click "Wireless Network Connection" of "WLAN mini-PCI Module", and select "Properties".
   Select "Wireless Networks" tab, and uncheck the check box of "Use Windows to configure my wireless network settings", and then click "OK".