

## Network Radio Niagara Ax™ Option Card



### Features

- RF-RXS-N internally mounting JACE option card



### Specifications

Radio Output:	Frequency 2.4GHz 16 channels, automatically selected
	Direct-sequence spread spectrum
	Compliance IEEE 802.15.4-2006
Aerial Characteristics:	Gain 3.0dBi
	VSWR <2:1
Data Encryption:	AES 128
Power Output:	+10dBm
Power Supply:	24Vdc ±15%
	24Vac ±15%, 50/60 Hz
Serial communications:	USB 2.0
	Serial 9-pin RS-232
Environmental:	Operating Temperature
	-10°C to +50°C
	RH 0 to 90%, non-condensing
	Storage Temperature
	-10°C to +80°C
	RH 0 to 90%, non-condensing
Dimensions:	100mm x 70mm x 58mm
Country of origin:	UK

### Product Codes

- RF-RXS-N**  
Internally Mounted Network Radio Receiver
- RF-AERIAL-PM2**  
Aerial extension c/w bulk head fitting - 2m
- RF-AERIAL-PM5**  
Aerial extension c/w bulk head fitting - 5m

## Network Radio Niagara Ax™ Option Card

### Technical Overview

#### Application

The SonNet wireless network card and related SonNet.jar file is designed for use with the JACE 2 and JACE 6 series controllers. This card allows the integrator to work in the familiar Workbench tool set to build and commission a SonNet wireless network.

#### Before You Begin

Included in the wireless card package you should find the following items:

- The wireless card
- A local antenna

A #2 phillips screwdriver is required for installation.

To add the SonNet option card to a system you will need the SonNet .jar file BETA, which is available on request.

### Installation

Electro-static precautions must be taken when handling and installing the option card.

#### Mounting the wireless communication card on the JACE controller

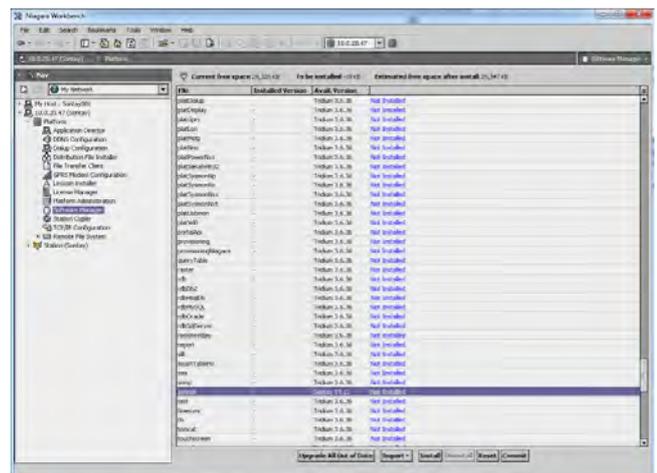
1. Remove power from the controller.
2. Remove the controller cover. To do this, press in the four tabs on both ends of the unit, and lift the cover off.  
**NOTE:** If other expiation accessory modules are plugged into the controller, you may need to slide them away from the unit to get to the cover tabs.
3. Remove the battery and bracket assembly by taking out the four screws.
4. Unplug the battery from the connector on the controller.
5. Remove the front blanking end plate from option slot 1 (COM1) o the JACE.
6. Carefully insert the pins of the wireless card into the appropriate socket. The mounting holes on the option card should line up with the standoffs on the base board. If they do not, the connector is not properly aligned. Press until the option card is completely seated.
7. Plug the battery cable back into the battery connector on the controller.
8. Set the battery and bracket assembly back over the option card slots, with the mounting holes aligned with the standoffs.
9. Re-fasten screws through battery bracket. DO NOT over tighten.
10. Replace the controller cover.
11. Install the antenna.

### Configuring the Wireless Network

The following instructions assume you are familiar with the Tridium Workbench and its related functions. This section guides you through the steps to set up a SonNet wireless network. Install the wireless card on the JACE controller before you begin.

**Note: Workbench version 3.6.43 or greater is required.**

1. Install the wireless card on the JACE as described in the previous section.
2. Copy the SonNet.jar file to your local Niagara Module folder. The .jar file BETA is available on request.
3. Open the controller's Platform, then click on Software Manager.
4. Select the SonNet file to install on the station.
5. Click on the Install button, and then click on the Commit button.



6. Reboot the controller to properly load the .jar file. The wireless card will not work unless you reboot after installing the file.
7. Once installed and rebooted connect to the station, expand Config and select Drivers. Click the new button.
8. Select SonNet Network from the list of available drivers and click OK.



9. Rename the driver if required.

