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# Skyus™ 4G LTE

Quick Start Guide  
Verizon



## Preface

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### Intended Use

Use this product only for the purpose it was designed for; refer to the datasheet and user documentation. For the latest product information, visit us online at [www.feeneywireless.com](http://www.feeneywireless.com).

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## Overview

The Skyus 4G LTE platform is a rugged, low-cost, self-contained modem kit. The Skyus platform simplifies the integration efforts of adding mobile connectivity in M2M solutions and accelerates time-to market for creating connected devices. In contrast to standalone radio modules, the Skyus uses a standard USB connection interface, making it readily compatible with the largest choice of host devices.

Integration of the Skyus into a Windows based system requires at a minimum two high level components, the **driver** and a mechanism to provide **connection management**. This document is intended to guide you through the process of connecting the hardware and setting up these two components.

## Intended Audience

This document is intended for users responsible for the initial set-up of the Skyus and assumes the installer possesses a basic working knowledge of computer networking, wireless routing and network administration.

## Scope

This Quick Start Guide focuses on the installation and configuration of the Skyus. For information necessary above and beyond this level of operation, please refer to the User's Manual.

Feeney Wireless recommends initial set-up of the Skyus should be performed on a bench with a computer to gain some familiarity with the hardware and software of your system.



Fig 1. Skyus Product Photo

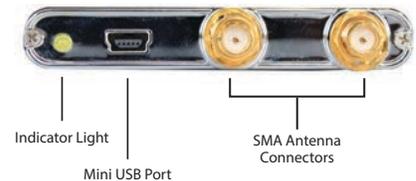


Fig 2. Skyus Ports



Fig 3. Skyus Top View

**Environmental Specifications**

The Skyus 4G LTE is designed to operate in a minimum ambient environment of -25°C or -13°F.

The Skyus 4G LTE is designed to operate in maximum ambient environment of 60°C or 122°F.

**Power Consumption**

The Skyus 4G LTE power consumption is specified as: 500mA at 5VDC typical, 1 A peak.

**Installation Steps**

1. Inspect package contents and compare against packing list.
2. Install Sierra Wireless Driver.
3. Connect antennas.
4. Connect to computer or router.
5. Verify activation.
6. Install connection manager.
7. Verify a connection to the internet.

**Packing List: Package Contents**

Item	Description
Skyus	Skyus 4G LTE Device
Cable	USB 2.0 Type A Male to Mini B Male
Documentation	Quick Start Guide

If, during inspection of package contents, it is determined that you are missing an item, please contact your Feeney Wireless Service Representative.



Fig 4. Skyus Skyus 4G LTE

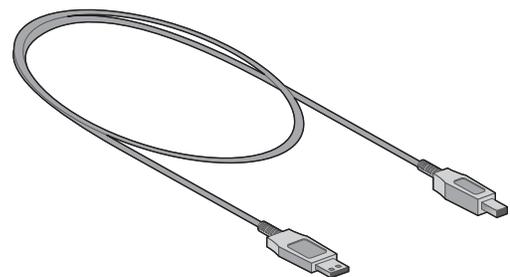


Fig 5. USB Cable USB 2.0 Type A Male to Mini B Male

## Operating Systems

The information contained in this guide is focused on operating your device in a Windows environment. If your system is operating with a non-Windows application, please contact Feeney Wireless for guidance that is specific to your environment.

## Installation of Sierra Wireless Driver

The Skyus 4G LTE utilizes an internal Sierra Wireless radio module. Drivers for Windows based platforms are provided in binary form by Sierra Wireless. For the Sierra Wireless Driver file, please contact your Feeney Wireless Representative.

This link will activate/prompt the user to begin downloading the “SWUSBDRIVER\_SKY3GVZW.exe” file for installation.

*If you are working on the device you intend to use the Skyus with proceed with installation on the local drive.*

*If you are working on a separate device from the one you intend to use the Skyus e with, save the file to a portable media device which will be used to install the drivers on the separate device.*

Begin the installation of the Sierra Wireless drivers by clicking on **SWIQMI.exe** driver installation file.



Fig 6. Sierra Wireless Driver Installation

Follow the necessary steps to finish the installation until the screenshot matches the image shown in Figure 7.



Fig 7. Sierra Wireless Installation Completed

## Connecting the Antenna

To ensure that you are using the appropriate cellular antenna, please contact the appropriate Feeney Wireless representative to provide the proper service to your installation.

### **Frequency Bands:**

- LTE 700 (B13) MHz; (TX 777-787, RX 746-756)
- CDMA 1xRTT/EV-DO Rev A 800/1900 MHz

Connect the cellular antennas to the device. For the Skyus 4G LTE, an antenna is necessary for both of the connections on the device.



Fig 8. 4G Antenna Connections

## Connecting to Computer or Router

Connect the Type A Male side of the enclosed USB cable to your computer or alternate host device.



Fig 9. Type A Male USB



Fig 10. Type Mini B Male USB

Connect the Mini B Male side of the enclosed USB cable to the Skyus.

Power is provided by the USB cable, once connected, your Skyus will power up and attempt to register to the carrier.

## Activation

Your device is ready to be activated only after the cellular carrier sets up an account and provides a phone number and/or IP address for your device. Once you have an account associated with your device, activation will be performed when connecting to the cellular network for the first time. If you are not sure if your device has an account, contact your sales representative or Feeney Wireless technical support.

## Provisioning

Once your device is activated and you connect to the cellular carrier for the first time, your device will perform Over the Air provisioning. (If required)

The Skyus 4G LTE will provision over the air automatically upon initial power up. Please connect it to a host and wait 45 minutes to allow this process time to complete prior to attempting to connect or unplugging the device.

## Connection Manager

There are multiple options for connection management. The following sections will provide a brief description of relevant connection managers. Please contact Feeney Wireless support for guidance regarding the correct manager for your installation.

### **Verizon VZAccess Manager**

Verizon provides a connection utility for their devices on Windows and Mac platforms.

As VZAccess Manager is available for consumer and enterprise downloads, your organization may provide a specific version for installation. If a custom VZAccess build has not been provided to you for installation, a download is available by following the link below:

<http://www.vzam.net/default.aspx>

### **Sierra Wireless**

Sierra Wireless provides a connection utility compatible with Skyus devices that can manage connections. It also allows displays network coverage indication. More information about Sierra Wireless Connection Management Software is available at:

[http://www.sierrawireless.com/en/productsandservices/AirPrime/Software\\_Interfaces/Connection\\_Manager.aspx](http://www.sierrawireless.com/en/productsandservices/AirPrime/Software_Interfaces/Connection_Manager.aspx)

## Contacting Feeney Wireless

For help with installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided.

If you still have questions, contact us during business hours:

Monday through Friday, excluding holidays, between 8 a.m. and 5 p.m. Pacific Time.

Support E-mail	support@feeneywireless.com
Telephone	(800) 683-4818
Website	www.feeneywireless.com
Mailing Address	P.O. Box 2549, Eugene, OR 97402

When contacting technical support, please have the following information on-hand:

1. Serial Number
2. Date that you received your device
3. Brief description of the problem

### Online Library

For other documentation, see our online document library at:

<http://feeneywireless.com/documents>

### Return and Warranty

Feeney Wireless offers a standard one-year warranty on all hardware. For returns or warranty information, call our 800 number.

### Further Specifications

For more specifications please see the 3G Sprint Skyus Datasheet.



## FCC compliance

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 when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication. Feeney Wireless does not guarantee that interference will not occur in a particular installation.

Operation is subject to the following conditions:

- a. This device may not cause harmful interference.
- b. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- a. Reorient or relocate the receiving antenna
- b. Increase the distance between the equipment and the receiver.
- c. Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
- d. Consult the dealer or an experienced radio/TV technician for help.

**Exposure to RF radiation** - To comply with FCC RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. Do not collocate or operate this device in conjunction with any other antenna or transmitter.

Contains TX module FCC ID: N7N-MC5728