

Sprint Printable User Guide

A downloadable, printable guide to your device's features.

NETGEAR* 341U USB Modem



Table of Contents

Get Started	1
Your Device	1
Package Contents	2
Care and Maintenance	2
System	2
Starting Your Device for the First Time	3
Getting Help	3
Visiting the Sprint Website	4
Contacting Sprint Customer Service	4
Device Basics	5
3G and LTE Networks	5
Mobile Broadband Information and Settings	5
Signal Information	6
Internet Connection Information	6
Restarting the Device	6
OLED Display	7
Micro-SIM	7
External Antennas	9
Alerts	9
Your Network Connection	10
Launching Your Network Connection	10
Connecting the Device	10
TRU-Install	11
OLED Display	14
Interpreting the OLED Display	14
Data Usage	15
Alerts	15
NETGEAR 341U Manager Interface	16
Home Page	16
Displaying the NETGEAR 341U Manager Home Page	17
Logging In as an Administrator	17
Data Usage	18
My Account Summary	19

	Alerts	20
	Status (Connection Details)	20
	GPS Page	21
	Settings Page	23
	General > Device Tab	23
	General > Software and Reset Tab	24
	General > System Logs Tab	26
	Network > Preferences Tab	27
	Network > APN (Access Point Name) Tab	28
	Network > SIM Security Tab	29
	Network > Status Details Tab	30
	Support Page	32
	About Page	33
	Feedback Page	35
Dev	vice Settings	36
	Display Settings	36
	Turning the OLED Display On or Off	36
	Setting the OLED Display Data Usage Format	36
	NETGEAR 341U Manager Home Page Settings	36
	Changing the NETGEAR 341U Manager URL	37
	Changing the NETGEAR 341U Manager IP Address	37
	Changing the NETGEAR 341U Manager Password	37
Cor	nfiguring Networks	39
	Viewing Network Activation Information	39
	Viewing Data Usage	39
	Network Settings	40
	Setting the Roaming Mode	40
	Enabling / Disabling the Roaming Guard Warning Message	41
	Setting the Allowed Network Mode	41
	Configuring Access Point Names	42
Sof	ftware and Reset	43
	Exporting and Importing Settings	43
	Exporting Settings	
	Importing Settings	43
	Update USB Modem Software and Firmware	44
	Downloading Software Updates	44
	Upgrading Firmware From a File	45

Resetting Your Device	45
Clearing Account Details Only	45
Resetting Device Settings Only	45
Resetting to Factory Default Settings	45
GPS Settings	47
Enabling / Disabling GPS	47
Setting the GPS Mode	47
Using Metric Units	48
Frequently Asked Questions	49
How Can I Tell I'm Connected to 3G or LTE?	49
Is Roaming on LTE Supported?	49
What Do I Do if I Forget the Administrator Password?	49
If the Connection is "Always On," Am I Always Being Billed?	49
Questions About GPS	49
What is GPS?	50
Where Can I Use GPS?	50
How Do I Enable or Disable GPS?	50
What are some GPS Limitations?	50
How Can I Stream GPS Data to Use With a Third-party GPS Application?	50
How Do I Access My Corporate Network Through a VPN?	51
Are Terminal Sessions Supported?	51
Tips	52
USB Modem Location	52
Improving Signal Strength	52
Improving 3G Network Service	52
Troubleshooting	53
General Tips	53
OLED Display Is Dark	53
Insufficient Signal Strength	53
Cannot Display the Home Page	53
Cannot Connect to the Mobile Broadband Network	54
GPS Doesn't Seem to Be Available	55
Cannot Check for Updates	55
Technical Specifications	56
Radio Frequency and Electrical Specifications	56
Software Specifications	57
Environmental Specifications	57

Mechanical Specifications	58
Safety Information	59
Important Notice	59
Safety and Hazards	59
Regulatory Notices	60
Legal	62
Patents	62
Licenses	62
GNU General Public License (Version 2)	62
GNU General Public License (Version 3)	68
GNU Lesser General Public License (Version 2.1)	78
GNU Lesser General Public License (Version 3)	86
fontconfig License	88
libxml2 License	89
locapi License	91
pimd License	91
shadow License	92
ISC License	93
OpenSSL License	93
Original SSLeay License	94
Trademarks	96
Copyright	96
Limitation of Liability	96
Additional Information and Updates	97
Index	98

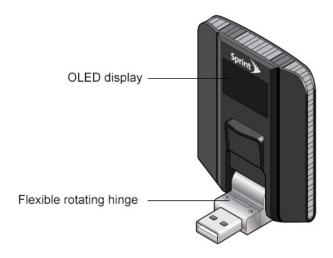
Get Started

The following topics give you all the information you need to set up your device and Sprint service the first time.

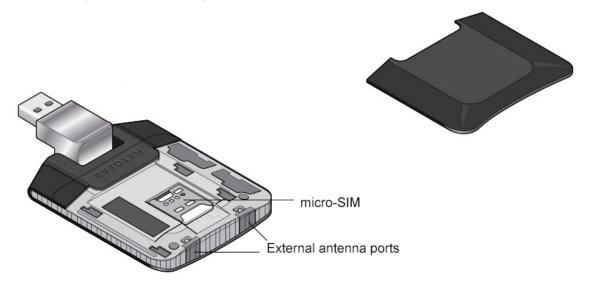
Your Device

The following illustrations show your device's primary external features and buttons.

Front View



Back View (Cover Removed)



Package Contents

Your package includes several items.

- NETGEAR 341U USB Modem
- Back cover
- Micro-SIM (pre-installed)
- Get Started poster
- Recycling envelope

Care and Maintenance

As with any electronic device, you should handle your NETGEAR 341U USB Modem with care to ensure reliable operation. Follow these guidelines in using and storing the device.

- Protect the device from liquids, dust, and excessive heat.
- Do not handle or operate the device while driving or operating a vehicle. Doing so may distract you from properly operating the vehicle. In some jurisdictions, operating communication devices while in control of a vehicle is a criminal offense.
- Do not apply adhesive labels to the device. They may cause the device to overheat and may alter the antenna's performance.

System

The following items are required to use your NETGEAR 341U USB Modem.

- Web browser (required if you'll be using the NETGEAR 341U Manager browser interface to view status and to configure settings). The following browsers are supported:
 - Internet Explorer® (version 7.0 or higher)
 - Mozilla Firefox[®] (version 3.0 or higher)
 - Google Chrome[™] (version 2.0.172.28 or higher)
 - Apple Safari[®] (version 4.0 or higher)
 - Opera[™] (version 9.64)
- Computer running Windows[®] 8 (32/64 bit), Windows 7 (32/64 bit), Windows Vista, Windows XP, or Mac OS[®] X (version 10.5 or higher)

■ USB 2.0 / 3.0 slot

Starting Your Device for the First Time

The NETGEAR 341U USB Modem is designed to activate automatically the first time that it is plugged in, using 'hands-free activation'. Typically, the activation process will be seamless, not requiring any action on your part; you might not even see any activation-related messages on the device's OLED display.

If your account did not activate for some reason (you are not in an area with Sprint 3G or LTE network coverage, you are in an area where you can't get signal such as a building or tunnel, etc.), a message will appear on the OLED display telling you to go to http://sprintmodem/ to activate the account.

You must activate your account before you can use Sprint data services.

Plug in the Modem to Automatically Activate Your Account

- Insert the USB modem into an available USB 2.0 or USB 3.0 slot. The device starts up and, if a Sprint 3G or LTE network signal is available, it will automatically try to activate your account (a message will appear indicating hands free activation is in progress).
- 2. If the activation succeeds, the OLED display shows the home screen. If the activation fails, you can try to activate the account from the NETGEAR 341U Manager, or repeat this procedure when you are in a Sprint coverage area.

Activate Your Account From the NETGEAR 341U Manager

If your account was not activated automatically when you inserted the USB modem, you cannot use Sprint data services.

You can attempt to activate the account from the NETGEAR 341U Manager:

- 1. Log in to the home page. (See Logging In as an Administrator.) If a Sprint 3G or LTE network signal is available, hands free activation begins automatically.
- 2. Read the End User License Agreement that appears and, when you are ready, click **I Agree** to accept the terms of the agreement.
 - If the account is still activating, a Hands Free Activation message will display the current status. Wait for the process to finish (recommended) or click **Cancel**.

If you cancel the activation, follow the instructions that appear to finish the activation process.

If the activation succeeds, an Activation Complete message will appear.

Getting Help

Learn where you can get more information or assistance.

Visiting the Sprint Website

Sign on to sprint.com to get up-to-date information on Sprint services and options.

- Review coverage maps.
- Access your account information.
- Add additional options to your service plan.
- Purchase accessories.
- Check out frequently asked questions.
- And more.

Contacting Sprint Customer Service

You can reach Sprint Customer Service online or by calling toll-free.

- Log on to your account at sprint.com.
- Call us toll-free at **1-888-788-4727** (business use) or **1-888-211-4727** (personal use).

Device Basics

Learn about the buttons, connectors, and other components of your NETGEAR 341U USB Modem.

3G and LTE Networks

These wireless networks connect you to the Internet.

Depending on your coverage area, you may have:

- Only LTE coverage
- Only 3G coverage
- A combination of these networks

Your device automatically connects to the fastest network that is available to you (customizable). If you have both 3G and LTE coverage and your connection happens to get disrupted, your device can automatically switch to the other network. For more information, see Mobile Broadband Information and Settings.

- LTE Newer technology, faster speeds compared with 3G and GSM
- 3G CDMA technology, more widely available compared with LTE

Mobile Broadband Information and Settings

The network icon indicates the active network service type.

Icon	Description
LTE	LTE service is available.
3G	3G service (1X/HRPD/1xHRPD) is available.
No icon	You have no service. Try the suggestions in Cannot Connect to the Mobile Broadband Network.

Your device is designed to always connect to an available network if possible. If your device is not connected (dropped signal, roaming not supported, etc.) an alert is displayed. The connection status can be seen on your device's OLED Display, and on the NETGEAR 341U Manager's Network > Status Details Tab.

Your device can be set to connect automatically to the best available network, or to LTE or 3G networks only. See Setting the Allowed Network Mode.

Your device can also be set to allow roaming on Sprint networks, domestically, and internationally. See Setting the Roaming Mode.

Signal Information

Learn how to determine the signal strength and get detailed network status information.

Signal Strength

The signal strength icon appears on your device's OLED display and in the NETGEAR 341U Manager's **Connection Details** panel.

lcon	Description
\bigcirc	No signal
4	Very weak signal
a	Excellent signal

Active Network

The network that is currently being used for your data connection appears on the device's home screen and in the Web page's **Connection Details** panel.

Network Status

Detailed network information (such as Connection Status, RSSI, Ec/Io, etc.) appear on the NETGEAR 341U Manager's Network > Status Details Tab.

Internet Connection Information

Find information about your Internet connection.

- Data usage for the current connection session and the current billing period. (See Viewing Data Usage.)
- Network connection type, signal strength, roaming status, and GPS status

Restarting the Device

If the device is not functioning properly, you can restart it using these methods.

Eject and reinsert the device

Reboot the computer

OLED Display

The OLED display has several icons that help you determine the status of your device and its connections, view data usage, and view system alerts. See OLED Display for details.

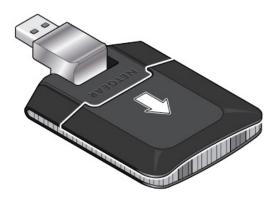
If the OLED display is not lit, see Turning the OLED Display On or Off.

Micro-SIM

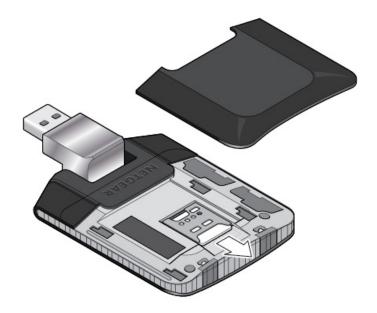
Your NETGEAR 341U USB Modem comes with a pre-installed micro-SIM that gives you access to the Sprint network.

To replace the micro-SIM if needed (your micro-SIM is damaged, you want to use a different account, etc.):

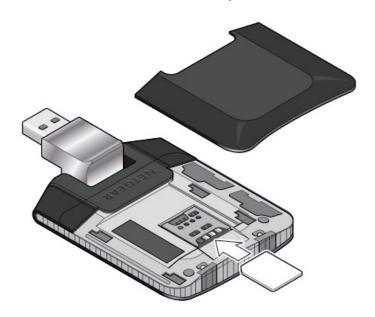
1. Slide the back cover off of the device.



2. Slide the micro-SIM out of the tray.



3. Slide the new micro-SIM into the tray.



4. Replace the back cover.

External Antennas

Your NETGEAR 341U USB Modem supports the use of external MIMO antennas via two antenna connectors on the top edge of the device.

Important: If you choose to use external antennas, you **must** connect MIMO antennas to both antenna connectors, otherwise the device will not function correctly. Only antennas approved by NETGEAR for use with the NETGEAR 341U USB Modem are supported.

To connect external antennas:

- 1. Remove the back cover of the device.
- 2. Pull back the antenna connector covers and insert both of the antennas.
- 3. Replace the back cover.

Alerts

Alerts notify you about situations that require your attention and suggest the actions you need to take to resolve them.

Some of the alerts you may encounter include:

- SIM issues (SIM error, PIN locked, MEP locked, not installed)
- Roam Guard
- Mobile Broadband disconnected (Connection error)
- Add more data
- Downloading and Installing Firmware
- Airplane mode
- Temperature error

Your Network Connection

Find out how to launch and end your network connection.

Launching Your Network Connection

After the device is plugged in and boots up, a connection to the best available network is launched automatically.

The device will remain connected at all times, unless:

- You are out of signal range or the signal is blocked (in a tunnel, etc.).
- You are in a roaming area and you have chosen not to allow roaming.

Note: Even though the device is connected, you are only billed when data is sent or received. For more information, see If the Connection is "Always On," Am I Always Being Billed?

See also:

- Internet Connection Information
- Mobile Broadband Information and Settings
- Signal Information

Connecting the Device

Connect the device to an available USB port on your computer.

Note: The NETGEAR 341U USB Modem includes TRU-Install, which is a feature that installs the necessary drivers the first time you connect your device to your Windows or Mac computer. An installation CD is not required. See TRU-Install for more information.

To connect the device to your computer:

Insert the device's USB connector into a USB 2.0 or USB 3.0 slot in your computer.



If the computer does not have device drivers installed for the NETGEAR 341U USB Modem, they are installed using TRU–Install.

TRU-Install

The NETGEAR 341U USB Modem includes TRU-Install, which is a feature that installs the necessary drivers the first time you connect your device to your Windows or Mac computer. An installation CD is not required.

Windows

When the device is connected to a Windows computer that does not have the required device drivers, the device starts up and then:

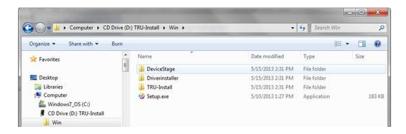
- 1. The device drivers will install and you must accept the license agreement:
 - If the driver End user license agreement is displayed, select I've read and agree to the terms and conditions of my order.



 if the AutoPlay window opens, click Run setup.exe, and when the End user license agreement is displayed, select I've read and agree to the terms and conditions of my order.



- If the driver End user license agreement does not display and the AutoPlay window does not open:
 - a. Press + E to open My Computer.
 - b. Open the TRU-Install drive.
 - c. Open the Win folder.
 - d. Double-click Setup.exe.



- e. When the End user license agreement is displayed, select **I've read and agree to the terms and conditions of my order**.
- Click Install.
- 3. When the installation is complete, click **Finish**.

Mac

When the device is connected to a Mac computer that does not have the required device drivers:

- 1. The device starts up, and then the TRU-Install window opens. Double-click the **Install Drivers** icon.
- 2. Follow the onscreen instructions.
- 3. When prompted for your password, enter your Mac password.

4	Click Co	ntinua	Installation	

5. When the installation finishes, click **Restart** to reboot the computer and use the new drivers.

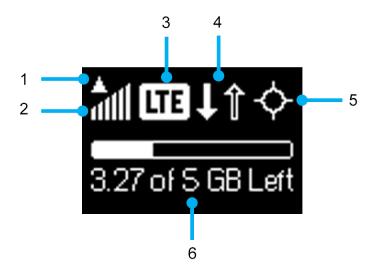
OLED Display

The NETGEAR 341U USB Modem's OLED display shows details (connection status, roaming status, and GPS info) and data usage for the current billing period or connection session.

If the OLED display is not lit, see Turning the OLED Display On or Off.

Interpreting the OLED Display

The OLED display shows icons and text that reflect the status of the device and your connection, and screen elements that link to other configuration screens.



ltem	Description
1	Roaming indicator – When the device is roaming, a triangle appears above the Signal strength icon.
	See also Setting the Roaming Mode.
2	Signal strength (1-6 bars, or no signal)
3	Network type (LTE, 3G)
4	Data transfer indicator (WAN traffic – upload (send) / download (receive)) – Arrows are solid when data is being transferred.
5	GPS indicator – Appears only when GPS tracking is on. The icon pulses/glows when searching for satellites or while tracking is in progress. See GPS Settings.
6	Data usage – Indicates the amount of data remaining (for the billing cycle) or the

OLED Display 14

Item	Description
	amount of data used (for the current session). The bar (if shown) represents the amount of data remaining (the solid portion of the bar).
	See Data Usage and Setting the OLED Display Data Usage Format for details.

Data Usage

The Data Usage section of the OLED display shows either billing cycle data usage or current session data usage, depending on the format selected in the NETGEAR 341U Manager (see Setting the OLED Display Data Usage Format.)

See Viewing Data Usage for details.

Alerts

The OLED display shows network or device alerts for situations that require your attention. If one or more alerts are active, the OLED display shows the most severe alert. The alert remains on screen until it is resolved.

To view and resolve alerts, log in to the NETGEAR 341U Manager home page. (See Logging In as an Administrator.) See the Alerts section of Home Page for details.

OLED Display 15

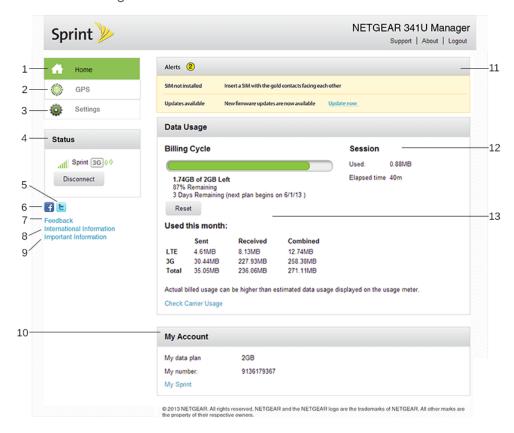
NETGEAR 341U Manager Interface

Access your device and connection information, and configure device settings from the NETGEAR 341U Manager (browser) interface.

Home Page

The home page is the entry page for the NETGEAR 341U Manager interface.

- View your data usage and status information for your data connection.
- Manage your mobile broadband network connection.
- View alert messages.



ltem	Description
1	Home page – Click to view the Home Page.
2	GPS page – Click to view the GPS Page.
3	Settings page – Click to view the Settings Page.
4	Mobile broadband connection information – See Mobile Broadband Information

Item	Description
	and Settings.
5	Twitter® – Click to view the AirCard Twitter feed in a new browser window or tab. (Your device must be connected to the network for this option to work.)
6	Facebook® – Click to view the AirCard Facebook page in a new browser window or tab. (Your device must be connected to the network for this option to work.)
7	Feedback – Click to send NETGEAR your comments on your device. See Feedback Page. (Your device must be connected to the network for this option to work.)
8	International Information – Click to view Sprint's International Coverage Areas search feature in a new browser window or tab. (Your device must be connected to the network for this option to work.)
9	Important Information – Click to read important safety information about the NETGEAR 341U USB Modem.
10	My Account Summary – Basic information about your Sprint data plan. For more details, click My Sprint to connect to your account at mysprint.sprint.com/mysprint.
11	Alerts – Alerts remain until issue is resolved.
12	Estimated data usage for current session.
13	Estimated data usage for current billing period.

Displaying the NETGEAR 341U Manager Home Page

There are two ways you can display the NETGEAR 341U Manager home page.

Note: You can display the home page only when your device is plugged in.

To display the home page, type one of the following in the address bar of your Web browser:

- http://SprintModem
- http://192.168.1.1

Note: If you're using the Google Chrome Web browser, after typing in the address bar, press the Down Arrow key and then press the Enter key. (If you don't press the Down Arrow first, a Google search starts instead of loading the NETGEAR 341U Manager.)

If your Web browser displays an error message, see Cannot Display the Home Page.

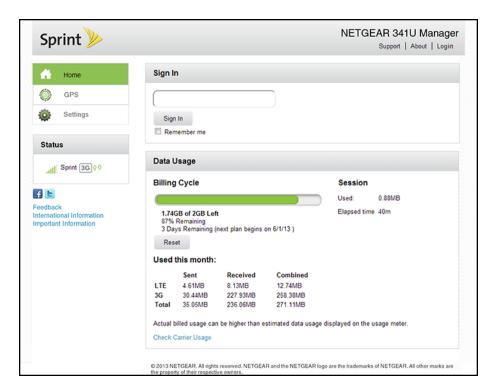
Logging In as an Administrator

Logging in to the home page allows you to view more detailed information about your device, and to manage its settings and broadband network connection.

Note: If you don't log in, you can only view the current network connection status.

To log in:

- 1. In the address bar of your Web browser, type one of the following:
 - http://SprintModem
 - http://192.168.1.1
- 2. In the **Sign In** field, enter the NETGEAR 341U Manager administrator password (1-31 letters, numbers, and symbols). (The default password is "**password**". It's recommended you change the password, if you haven't already. See Changing the NETGEAR 341U Manager Password.)

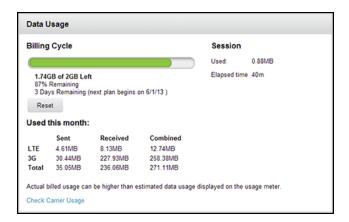


3. Click Sign In.

After a period of inactivity, you will be automatically logged off (timeout security feature).

Data Usage

Data usage estimates are shown in the Data Usage section of the home page.



Note: Data usage amounts are approximate and should not be used for billing purposes. For accurate data usage amounts, check with Sprint or click the My Sprint link in the My Account Summary section to view your account details.

The Data Usage section displays:

Item	Description		
Current billing pe	Current billing period		
Remaining this month	Amount of data still available from the monthly limit, and the number of days remaining before the next billing period begins.		
Used this month	The amount of data sent and received during the billing period for each network type.		
Reset button	Click to set the displayed monthly usage values to 0MB.		
	Important: This does not reset the actual data usage for the billing cycle.		
Current session			
Used	Data amount used since your device connected to the network		
Elapsed time	Length of time that your device has been connected to the network		

My Account Summary

The My Account Summary section shows basic information about your plan, and includes a link to see more detailed information.

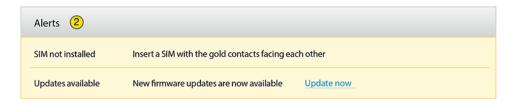


The following information is displayed.

ltem	Description
My data plan	The type of Sprint data plan used on your device.
My number	The telephone number linked to your data plan.
My Sprint	Click to connect to your account at mysprint.sprint.com/mysprint.

Alerts

The Alerts section shows network or device alerts for situations that require your attention.



The following information is displayed for each alert.

ltem	Description
Alert title	A short description of the issue to be addressed.
	The alert message and, if appropriate, links or buttons to take action on the alert. (For example, the "Update now" link in the second alert shown above would take you to the Software Update screen.)

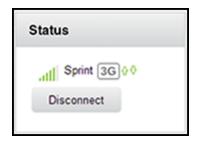
The alerts disappear only when the issues they describe are resolved.

You can also view the most urgent alert on the USB modem's OLED display.

See Alerts for a list of alerts you may encounter and the corrective actions required.

Status (Connection Details)

The Status section shows details about your mobile broadband service and connection state.



The following information is displayed.

ltem	Description
Signal strength and roaming status	The more bars, the stronger the signal. A triangle in the icon means your device is roaming. See Signal Information for details.
Network carrier name	Name of the available network. For example, "Sprint".
Network type	LTE, 3G (1X / HRPD / 1xHRPD)
Send / Receive indicators	♣ ♥ Up (sending data) / Down (receiving data) This icon appears when you are connected to the mobile network.
Roaming message	Indicates whether your device is roaming on a Sprint network, domestically, or internationally.
Connect / Disconnect button	Click this button to connect or disconnect your device from the mobile network.

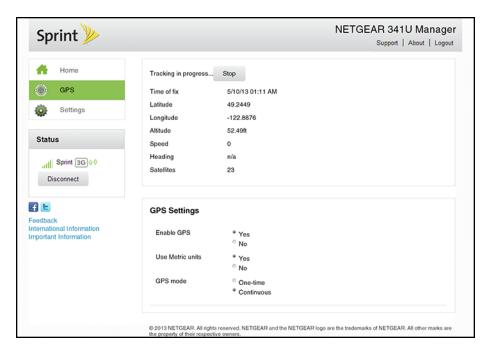
GPS Page

From the GPS page, you can obtain your current location coordinates (latitude, longitude, altitude, etc.).

You can also enable or disable GPS tracking, and choose the tracking method being used (one-time or continuous).

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click GPS.



You can:

- Start or Stop tracking (if GPS Mode is Continuous)
- Update the current location information (if GPS Mode is One-time)

Note: The first time that you access GPS, you will be prompted to read and accept the Location-Based Services (LBS) end user license agreement. You must accept the agreement before you can use the GPS feature.

Note: For best results, minimize the number of obstructions between your device and the GPS satellites.

The following information is displayed.

Item	Description
Most recent position fix	x
Update location / Cancel or	 If the GPS Mode is: One-time – Click Update location to get a location fix, or click Cancel to stop waiting for the fix to complete.
Start / Stop	 Continuous – Click Start to begin tracking and refreshing the location fix information regularly, or click Stop to stop tracking.
Status	Message indicating what the GPS system is doing (For example, "Tracking a fix", "Searching for satellites", "Inactive")
Time of fix	This is the date and time that the last fix was taken.

Item	Description
Latitude	Latitude at time of last fix. (For example, "N32.51.73")
Longitude	Longitude at time of last fix. (For example, "W105.11.7")
Altitude	Elevation at time of last fix. (For example, "40 meters")
Speed	Speed at which device was moving at time of last fix. (For example, "3.1 mph")
Heading	Direction in which device was moving at time of last fix. (For example, "East")
Satellites	The number of satellites used to get the last fix.
GPS Settings	
Enable GPS	Turns the GPS service on or off. See Enabling / Disabling GPS.
	Note: For best results, minimize the number of obstructions between your device and the GPS satellites.
Use Metric units	This setting specifies whether to use metric units when displaying the GPS results (for example, for altitude, speed, and HEPE). See Using Metric Units.
GPS mode	This setting determines how often your device should obtain a fix. See Setting the GPS Mode.
	One-time – A single fix is used. Use this option if you'll be using your device at the same location.
	 Continuous – Fixes are obtained every few seconds (also known as auto-tracking). This is useful for turn-by-turn (TBT) navigation applications, such as driving directions, and for NMEA-enabled applications.

Settings Page

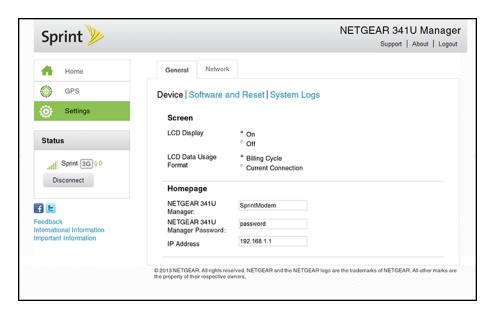
From the Settings page, you can configure your device and network settings.

General > Device Tab

From the **General** > **Device** tab of the **Settings** page, you can turn your device's OLED display on/off, choose the type of data usage to show on the OLED display, and configure the Web browser URL and IP Address.

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click Settings > General > Device.



The following information is displayed.

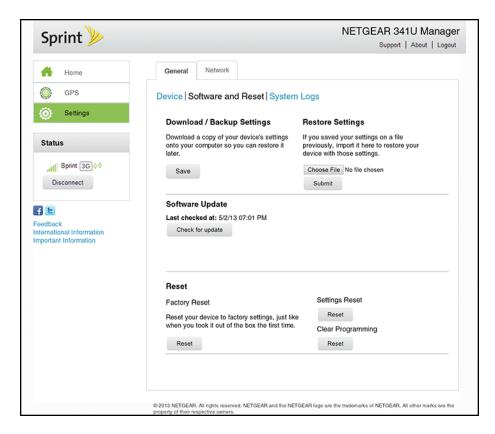
Item	Description
Screen	
LCD Display	Turn the OLED display on or off. See Turning the OLED Display On or Off.
LCD Data Usage Format	Choose whether to show Billing cycle usage or current connection usage. See Setting the OLED Display Data Usage Format.
Homepage	
NETGEAR 341U Manager	The URL used to show the homepage. See Changing the NETGEAR 341U Manager URL.
NETGEAR 341U Manager Password	The password used to show the homepage. See Changing the NETGEAR 341U Manager Password.
IP Address	The IP address that will be used to access the NETGEAR 341U Manager page. You can change this from the default (192.168.1.1) if there are conflicts with other devices on your system.

General > Software and Reset Tab

From this tab, you can save your current device settings and restore them later, update your software, and reset your device to default settings.

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click Settings > General > Software and Reset.



You can:

- Backup and restore your USB modem's configuration, if needed. See Exporting Settings and Importing Settings.
- Update your device's software. See Update USB Modem Software and Firmware.
- Reset some or all of your device's settings. See Resetting to Factory Default Settings, Resetting Device Settings Only and Clearing Account Details Only.

The following information is displayed.

Item	Description
Download / Backup Settings	Click Save to make a copy (export) of the USB modem's current configuration, so that you can restore it later if needed. See Exporting Settings.
Restore Settings	Click Choose file to use a previously saved copy of your device configuration. See Importing Settings.
Software Update	Click Check for update to see if a new version of your device's software has been released, and if there is, download and install it. The last time you checked is shown on the screen (Last checked at). See Update USB Modem Software and Firmware.

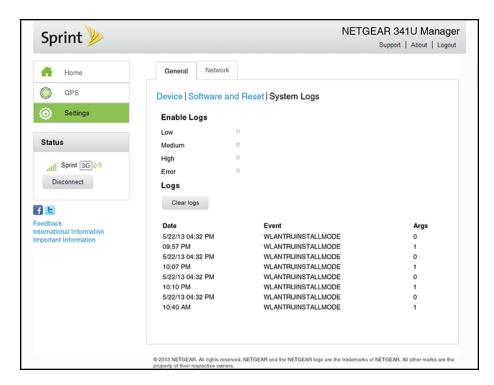
Item	Description
	Note: Software downloads count against your plan's data limit.
Reset	Factory Reset – Click to reset your device to factory default settings and clear your account details. See Resetting to Factory Default Settings. (You can only do this with assistance from Sprint.)
	 Settings Reset – Click to reset your device to factory default settings, but leave your Sprint account details unchanged. See Resetting Device Settings Only.
	 Clear Programming – Click to clear your account details. See Clearing Account Details Only.

General > System Logs Tab

Technical support staff may need you to configure system logging in this tab for the purpose of error diagnosis.

Note: You should only adjust settings in this tab under the direction of technical support staff.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > System Logs.



You can:

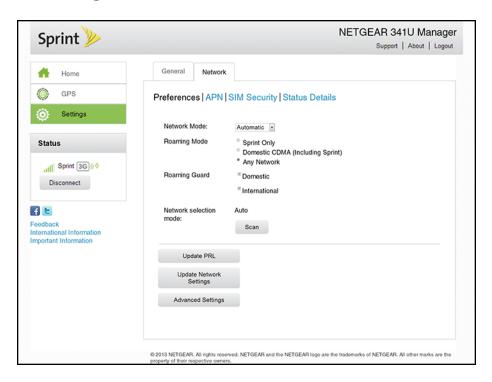
Enable logging

- Clear logs
- Download logs

Network > Preferences Tab

From this tab, you can configure your device's configuration for selecting networks and roaming, and receive network configuration updates from Sprint.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > Network > Preferences.



You can:

- Configure network selection and roaming options.
- Check the network for a new Preferred Roaming List.
- Re-run Hands Free Activation.

The following information is displayed.

Item	Description
	The type of network that your device can connect to. See Setting the Allowed Network Mode.
Roaming Mode	The areas in which your device can roam. See Setting the Roaming Mode.

Item	Description
Roaming Guard	If selected, the roaming areas where a warning will appear when you enter them. See Enabling / Disabling the Roaming Guard Warning Message.
Update PRL	Click to check if a new PRL (Preferred Roaming List) is available on the network, and use it to update your device.
Update Network Settings	Click to re-run HFA (Hands Free Activation).
Manual Configuration	Use only when instructed by Sprint.
Advanced Settings	Use only when instructed by Sprint.

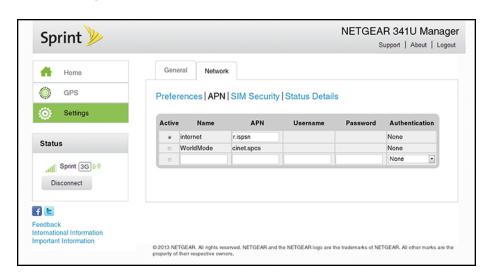
Network > APN (Access Point Name) Tab

To connect to a carrier's network when roaming, the device must be configured with an Access Point Name (APN) for that carrier. The APN is checked by the carrier to determine the type of network connection to establish.

Note: Your NETGEAR 341U USB Modem comes with the APN for Sprint preconfigured.

In this tab, you can add (or modify) APNs for the networks you want to connect to.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > Network > APN.



To add (or modify) an APN, see Configuring Access Point Names.

The list of all APNs that have been set up includes the following information.

Item	Description
Active	The APN currently in use. Only one APN can be marked as active.
Name	Network carrier name (for example, "Sprint").
APN	The operator's access point name (obtained from the operator).
Username	If required, the username (obtained from the operator) used to connect to the APN.
Password	If required, the password (obtained from the operator) used to connect to the APN.
Authentication	The network authentication code (None, PAP, CHAP, PAP or CHAP).

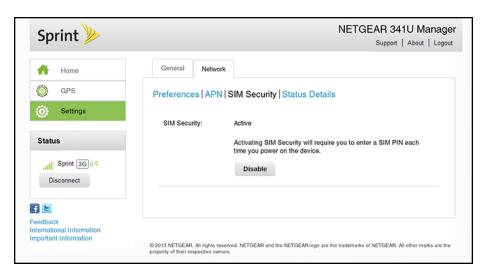
Network > SIM Security Tab

If you are using a SIM that has security enabled, you can disable SIM Security from this tab.

This tab shows the current status of this security feature, and allows you to disable SIM security if it has been enabled.

Note: The SIM PIN is required to disable SIM Security.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > Network > SIM Security.



3. If the SIM has security enabled, SIM Security will be Active. Click **Disable** to disable SIM security.

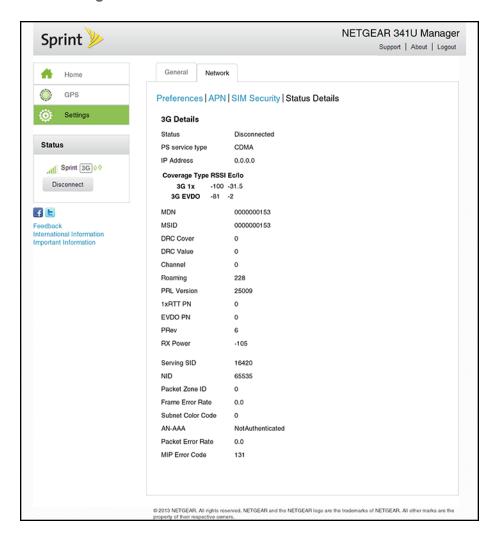
The following information is displayed.

Item	Description
•	The current state of the SIM PIN feature (Inactive or Active). Click Disable to disable SIM security.

Network > Status Details Tab

This tab shows you details about the current mobile broadband connection (3G, LTE).

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > Network > Status Details.



The information that is displayed depends on your current connection.

4G/LTE Details

Item	Description
Status	Indicates whether you are connected to an LTE network.
PS service type	Indicates the LTE service type.
RSRP	The signal strength of the LTE network. (Reference Signal Received

Item	Description
	Power)
RSRQ	The signal quality of the LTE network (Reference Signal Received Quality). RSRQ is the ratio between the RSRP and the Received Signal Strength Indicator (RSSI).
RS-SINR	Signal to Interference Noise Ratio based on Reference Signals (narrowband and wideband)
Cell ID	The LTE cell that is currently serving your device.
TX Power	The transmitter power. A higher number is better.
IP Address	The IP address of the 4G LTE connection.
Channel UL	The channel that is used to upload to the 4G LTE network.
Channel Number	The channel used by the 4G LTE radio. Technical support staff may request this value from you.
IMSI	The International Mobile Station Identity is an identifier of a device on the network.
Current radio band	The LTE band being used for the connection.
Reject Code	Technical support staff may request this value from you.
ICCID	The Integrated Circuit Card ID.

3G Details

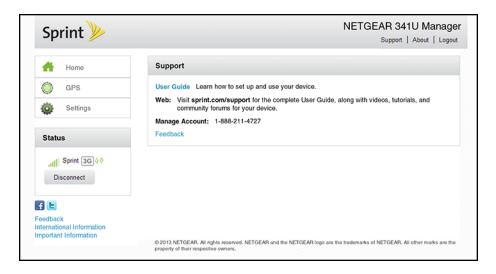
Item	Description
Status	Indicates whether you are connected to a 3G network.
PS service type	Indicates the 3G service type (for example, CDMA, HRPD, CDMA_HRPD).
IP Address	The IP address of the 3G connection.
Coverage Type	The type of 3G network available.
RSSI	Signal strength of the network.
Ec/lo	Dimensionless ratio of the average power of a channel, typically the pilot channel, to the total signal power.
MDN	Mobile Directory Number. This is your 10-digit telephone number.
MSID	Mobile Station Identifier.
DRC Cover	Digital Rate Control Cover.
DRC Value	Digital Rate Control Value.
Channel	DRC Channel number.
Roaming	Indicates if you are roaming on Sprint, domestically, or internationally.

Item	Description
PRL Version	Preferred Roaming List version. To update the PRL, see Network > Preferences Tab.
1xRTT PN	Technical support staff may request this value from you.
EVDO PN	Technical support staff may request this value from you.
PRev	Technical support staff may request this value from you.
Rx Power	Technical support staff may request this value from you.
Serving SID	The Serving System ID identifies your home network area and is used to determine if you are 'home' or 'roaming'.
NID	Technical support staff may request this value from you.
Packet Zone ID	Technical support staff may request this value from you.
Frame Error Rate	Used to determine the quality of a signal connection. Technical support staff may request this value from you.
Subnet Color Code	Technical support staff may request this value from you.
AN-AAA	Technical support staff may request this value from you.
Packet Error Rate	Technical support staff may request this value from you.
MIP Error Code	The Mobile IP Error Code. Technical support staff may request this value from you.

Support Page

This page provides links to resources that can help you use your device and manage your Sprint account.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click the **Support** link in the top right corner.



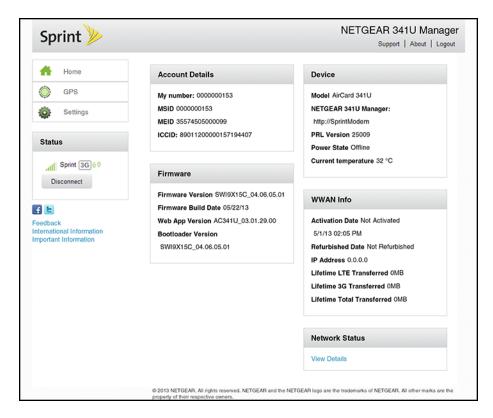
The following information is displayed.

Item	Description
User Guide	Open an online copy of this guide in a new Web browser window or tab. (You must be connected to the Internet to use this link.)
Web	Click the link to open the online support website in a new Web browser window or tab where you can find a variety of resources to help you with your device. (You must be connected to the Internet to use this link.)
Manage Account	Contact Sprint Customer Service by telephone (for business use or personal use).
Feedback	Send NETGEAR your comments on your device. See Feedback Page.

About Page

View information about your device and account.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click the **About** link in the top right corner.



You can:

Save the image on this page to a file on your computer. Click Save as a file.

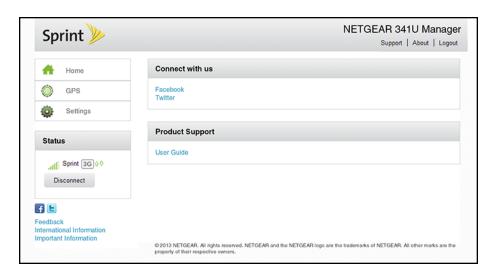
The following information is displayed.

Item	Description	
Account Details		
My number	The USB modem's telephone number.	
MSID	The Mobile Station ID associated with your phone number.	
MEID	The MEID of your device (displayed on the packaging and inside the back compartment).	
ICCID	The serial number of the SIM.	
Firmware		
Firmware Version	The USB modem's firmware version.	
Firmware Build Date	The date the firmware version was created.	
Web App Version	The NETGEAR 341U Manager version.	
Bootloader Version	The version of the software that starts up your device.	
Device		
Model	The manufacturer's name for your device.	
NETGEAR 341U Manager	Version number of the NETGEAR 341U Manager Web app.	
PRL Version	Preferred Roaming List version number.	
Power State	The USB modem's power state (Online, Offline).	
Current temperature	The USB modem's temperature. If your device is too warm, make sure the area is well-ventilated and air can circulate around your device to cool it. (See Environmental Specifications.)	
WWAN Info		
Activation Date	The date that the USB modem was activated on the Sprint network.	
Refurbished Date	The date that your device was refurbished (if applicable).	
IP Address	The IP address of the WWAN radio.	
Lifetime LTE Transferred	The total amount of data sent and received while connected to LTE networks.	
Lifetime 3G Transferred	The total amount of data sent and received while connected to 3G networks.	
Lifetime Total Transferred	The total amount of data sent and received by your device.	
Network Status		
View Details	Click the link to jump to the Network > Status Details Tab.	

Feedback Page

Use the links on this page to send your comments on your device, look up support information, and participate in a customer survey.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click the Feedback link in the bottom left corner of any page. The following page appears:



The following information is displayed.

Item	Description
Connect with us	
Facebook	Click to view the AirCard Facebook page in a new browser window or tab. (Your device must be connected to the network for this option to work.)
Twitter	Click to view the AirCard Twitter feed in a new browser window or tab. (Your device must be connected to the network for this option to work.)
Product Support	
User Guide	Open an online version of this user guide in a new window or tab.

Device Settings

Use the NETGEAR 341U Manager to configure and manage the device's appearance, performance, and access.

Display Settings

Adjust your screen's settings to suit your surroundings.

Turning the OLED Display On or Off

Use this feature to turn off the device's OLED display if you don't want to see it for some reason.

You can adjust this setting on the NETGEAR 341U Manager's **Settings** > **General** page.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Device.
- 3. Beside LCD Display, select On or Off as desired.
- 4. Click Submit.

Setting the OLED Display Data Usage Format

You can choose to show either Billing Cycle or Current Session data usage on the OLED display.

You can adjust this setting on the NETGEAR 341U Manager's **Settings** > **General** page.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click **Settings** > **General**.
- Beside LCD Data usage format, select the type of data usage to display (Billing cycle, or Current connection).
- 4. Click Submit.

NETGEAR 341U Manager Home Page Settings

The following topics provide information on changing the NETGEAR 341U Manager settings.

Device Settings 36

Changing the NETGEAR 341U Manager URL

You may want to change the URL for the NETGEAR 341U Manager to something more memorable.

To change the URL:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Device.
- In the NETGEAR 341U Manager field (in the Homepage section), type the new value (maximum 31 letters and numbers).
- 4. Click Submit.

Changing the NETGEAR 341U Manager IP Address

You may want to change the IP address for the NETGEAR 341U Manager if it conflicts with other devices on your system.

To change the IP address:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Device.
- 3. In the **IP Address** field (in the Homepage section), type the new IP address.
- 4. Click Submit.

Changing the NETGEAR 341U Manager Password

For security reasons, you should change the NETGEAR 341U Manager password on a regular basis.

Note: If you forget the NETGEAR 341U Manager password, you'll need to reset your device to its default settings and go through the device setup. (See What Do I Do if I Forget the Administrator Password?)

To change the NETGEAR 341U Manager administrator password:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Device.
- 3. In the NETGEAR 341U Manager Password field, type the new password (1-31 letters,

Device Settings 37

numbers, and symbols).

4. Click **Submit**.

Device Settings 38

Configuring Networks

The following topics provide information on configuring networks.

Viewing Network Activation Information

You can check whether network access is activated.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click **About** in the top right corner of the page.
- 3. Check the **Activation Date** in the WWAN Info section. This is the date that the USB modem was activated on the Sprint network.

Viewing Data Usage

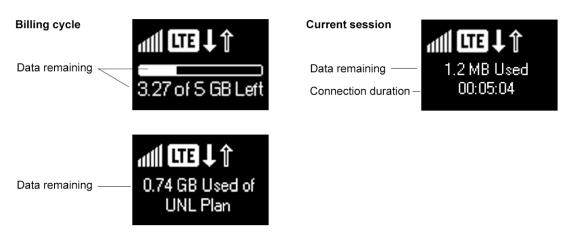
You can view an estimate of your data usage on the device's OLED display, and on the NETGEAR 341U Manager's home page.

Note: The data usage shown is an estimate only and is not accurate for billing purposes.

Note: The session data counter resets automatically each time the device is powered off and on, and when the mobile broadband network connection disconnects and reconnects (for example, when going through a tunnel). The billing plan data counter resets automatically when the next billing cycle starts.

On the OLED Display

The device's OLED display shows either billing cycle data usage or current session data usage, depending on the format selected in the NETGEAR 341U Manager (see Setting the OLED Display Data Usage Format.)



The Billing Cycle screen displays:

- A text description of the amount of data remaining in the current billing cycle.
- A data bar showing the amount of data remaining in the billing cycle (if the text description fits on one line).

The **Current Connection** screen displays:

- A text description of the amount of data used in the current session.
- The length of time the connection has been active.

In the NETGEAR 341U Manager (http://SprintModem)

Log in to the home page. (See Logging In as an Administrator.)

The Data Usage section of the home page shows:

Session

- Amount of data used in the current session
- The length of time the connection has been active

Billing Cycle

- Total amount of data used in the current billing cycle, and amounts used for each network type
- Number of days remaining in the current billing cycle
- Date that the next billing cycle begins
- Check Carrier Usage Click to connect to Sprint's website and view detailed billing plan information.

Network Settings

Adjust your device's network settings to select the network types that can be connected, and set roaming options.

Setting the Roaming Mode

Use this feature to choose where the device can be used in roaming mode.

You can adjust this setting on the NETGEAR 341U Manager's **Settings > Network > Preferences** page, using the following options:

- Sprint Only The device can be used only in Sprint service areas.
- **Domestic CDMA (Including Sprint)** The device can roam only in North America.

- Any Network The device can roam anywhere in the world.
 - 1. Log in to the home page. (See Logging In as an Administrator.)
 - 2. Click Settings > Network > Preferences.
 - 3. Beside **Roaming Mode**, select the desired value.
 - 4. Click Submit.

Enabling / Disabling the Roaming Guard Warning Message

Use this feature to have your device display a warning when you enter a roaming area.

You can adjust this setting on the NETGEAR 341U Manager's **Settings** > **Network** > **Preferences** page:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > Network > Preferences.
- Beside Roaming Guard, select the warnings you would like to display (Domestic and/or International).
- 4. Click Submit.

Setting the Allowed Network Mode

Use this feature to select the types of networks that your device can connect to.

You can adjust this setting on the NETGEAR 341U Manager's **Settings** > **Network** > **Preferences** page to one of the following options:

- Automatic The connection will be established on the fastest available network.
- LTE only The connection can be established only on an LTE network. Your device will not connect to CDMA (3G) networks.
- CDMA only The connection can be established only on a CDMA (3G) network. Your device will not connect to LTE networks.
 - 1. Log in to the home page. (See Logging In as an Administrator.)
 - 2. Click Settings > Network > Preferences.
 - 3. Beside **Network Mode**, select the desired network mode that the device can connect to.
 - 4. Click Submit.

Configuring Access Point Names

Your device comes preconfigured with the Access Point Name (APN) for Sprint.

To add an APN for another network:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > Network > APN.
- 3. In the blank line, enter the APN details:
 - In the **Name** field, enter a short description (for example, the carrier name).
 - In the **APN** field, enter the APN you obtained from the carrier.
 - Enter a **Username** and **Password**, if the network requires them.
 - Select the Authentication mode to be used (None, PAP, CHAP, PAP or CHAP).
- 4. Click the beside the new APN entry.

To select the APN to be used:

Select the Active button at the beginning of the entry.

To remove an APN from the list:

■ Click the x beside the APN entry.

Software and Reset

The following topics provide information on managing your device's software.

Exporting and Importing Settings

The NETGEAR 341U USB Modem lets you save your device settings so that you can make changes to your configuration and, if necessary, restore the original settings.

Exporting Settings

Settings include configuration information for the device, network, and NETGEAR 341U Manager interface.

You can, for example, export (save) the current configuration, then make some changes and test them. You can then import (restore) the saved configuration.

To export the settings to a text file:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Software and Reset.
- 3. In the **Download / Backup Settings** section, click **Save**.
- 4. Save the file to an appropriate location in your computer. By default, the file (export.cfg) is saved to your Downloads folder.

Importing Settings

This feature lets you restore a saved configuration.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Software and Reset.
- 3. In the Restore Settings section, click Choose File.
- 4. Navigate to the folder where your previously saved configuration file is stored.
- 5. Click **Open** to restore your device with the imported settings.

Note: Your device may reset, and you may need to reconnect to the Internet. For more information, see Launching Your Network Connection.

Update USB Modem Software and Firmware

From time to time, updates may become available for your device, and your device will receive an alert. You can also check for new updates manually.

The updates may improve performance and add or modify features. The updates may include the following:

- Device firmware
- The NETGEAR 341U Manager interface
- Other files

Downloading Software Updates

You can download software updates from the NETGEAR 341U Manager.

When a software update becomes available:

- If the device is connected to Sprint's LTE network, the update downloads automatically and an Alert message appears on the device and in the NETGEAR 341U Manager.
- If the device is connected to Sprint's 3G network, an Alert message appears on the device and NETGEAR 341U Manager.

There are two ways to get the software update from the NETGEAR 341U Manager. You can get it from the Alert message, or from the **Software and Reset** page.

To get the update from the Alert:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. In the Alert message for the available update, click the button to download or install the update.
- 3. Follow the onscreen instructions.

 The device reboots automatically to use the new software.

To get the update from the **Software and Reset** tab:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Software and Reset.
- 3. Click Check for update. If an update is available, an Install Now button appears.
- 4. Click Install Now.
- 5. Click **Continue**. The device reboots automatically to use the new software.

Upgrading Firmware From a File

A one-click tool may be available for upgrading firmware from a file in enterprise environments. Contact Sprint for details.

Resetting Your Device

In some cases, you may want or need to clear your account information to use the device with another account, reset most settings (except for your account and network activation), or reset the device to its factory default settings.

You can clear these settings from the NETGEAR 341U Manager's **Software** page.

Clearing Account Details Only

If you want to use the device with another account, you need to clear your current account.

You can clear these settings from the NETGEAR 341U Manager's **Software** page.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Software and Reset.
- 3. Below Clear Programming, click Reset.
- 4. Click Begin Reset.

Resetting Device Settings Only

If you want to reset the device to its default behavior, but don't want to change your account or network activation, you need to reset the device settings.

You can reset these settings from the NETGEAR 341U Manager's **Software and Reset** page.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > General > Software and Reset.
- 3. Below **Settings Reset**, click **Reset**.
- 4. Click Begin Reset.

Resetting to Factory Default Settings

In some cases you will need to reset the device's software to its factory default settings.

WARNING: If you reset the software to default settings, you must go through the device setup, as if you've just purchased the device. See Starting Your Device for the First Time.

You can reset the device to factory settings from the NETGEAR 341U Manager's **Software and Reset** page.

Note: You can only do a factory reset of your device with Sprint's assistance. Contact Sprint Customer Service to obtain an MSL code that you will need to enter to perform the reset.

- 1. Contact Sprint Customer Service to obtain an MSL code and your device's PIN code, if needed.
- 2. Log in to the home page. (See Logging In as an Administrator.)
- 3. Click Settings > General > Software and Reset.
- 4. Below **Factory Reset**, click **Reset**.
- 5. Enter the MSL code provided by Sprint, then click **Submit**.
- 6. Click **Begin Reset**.

GPS Settings

Your NETGEAR 341U USB Modem provides GPS functionality to help you figure out where you are and get you where you're going.

There are a couple of requirements to access the GPS service.

- You must accept the GPS privacy agreement.
- GPS must be enabled.

The GPS service may not be available if you are indoors. (You may be able to get a GPS lock if your device is very close to a window.) GPS receivers must be able to lock onto the global positioning satellites to accurately determine position. The number of obstructions present indoors often makes accurate position determination impossible.

Enabling / Disabling GPS

Before you can access GPS services, you must enable GPS on the NETGEAR 341U Manager's GPS page.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click GPS.
- 3. In the GPS Settings section, select **Yes** next to "Enable GPS" (or select **No** to disable GPS).
- 4. Click Submit.

Setting the GPS Mode

The GPS mode determines how often location fixes are done.

Location fixes can be done:

- Once ("one-time"), or
- Periodically ("continuous")

You can set the GPS mode from the NETGEAR 341U Manager's GPS page:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click GPS.
- 3. In the GPS Settings section beside **GPS Mode**, select the desired mode ("**One-time**" or "**Continuous**").
- 4. Click Submit.

GPS Settings 47

Note: The GPS service must be enabled before you can set the GPS mode. (See Enabling / Disabling GPS.)

Using Metric Units

You can use metric units in the display of location information (for example, speed and altitude).

You can choose the units on the NETGEAR 341U Manager's GPS page.

Note: The GPS service must be enabled before you can choose the units. For more information, see Enabling / Disabling GPS.

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click GPS.
- 3. In the **GPS Settings** section beside **Use Metric units**, select **Yes** (or select **No** to use standard measurements).
- 4. Click Submit.

GPS Settings 48

Frequently Asked Questions

Find out answers to questions you may have.

How Can I Tell I'm Connected to 3G or LTE?

When you're connected to a network, in the NETGEAR 341U Manager (http://SprintModem), the network type icon (LTE, 3G) appears in the Connection Details section on the left side of the page, and the connection status is shown on the Network > Status Details Tab.

Is Roaming on LTE Supported?

At the time of this release, roaming (that is, using a network other than Sprint) on LTE is not supported.

Roaming is supported on 3G (CDMA) networks.

To change the roaming setting, see Setting the Roaming Mode.

What Do I Do if I Forget the Administrator Password?

Here's what to do if you forgot the Administrator Password.

 Reset the software to default settings. You will need to call Sprint Customer Support for assistance. (See Resetting to Factory Default Settings.)

If the Connection is "Always On," Am I Always Being Billed?

No. The connection to the network goes dormant after a period of inactivity, but the connection can be re-established faster than having to reconnect. Billing occurs only when data is passed across the network.

Questions About GPS

Find answers to common questions about GPS.

What is GPS?

GPS stands for Global Positioning System, which is a system that uses a series of 24 geosynchronous satellites to provide location data.

GPS satellites transmit signals to equipment on the ground. GPS receivers passively receive satellite signals, but do not transmit.

Where Can I Use GPS?

GPS works wherever you have line-of-sight access to the GPS satellites.

How Do I Enable or Disable GPS?

By default, GPS is disabled. To enable GPS, see Enabling / Disabling GPS.

What are some GPS Limitations?

Weather conditions or tall nearby buildings may affect your ability to get a clear view of the satellites and thus to acquire a GPS fix.

How Can I Stream GPS Data to Use With a Third-party GPS Application?

GPS NMEA data is streamed over a tethered USB connection using a virtual COM port.

Follow these steps to stream NMEA data for a third-party GPS application.

- 1. Set **GPS Mode** to **Continuous**. (See Setting the GPS Mode.)
- 2. Determine the COM port number that your NETGEAR device (that is, your NETGEAR 341U USB Modem) is using.

In the following example for Windows, the Device Manager shows that COM 16 is used. In your case, the COM port number might be different.

```
Ports (COM & LPT)

Communications Port (COM1)

NETGEAR Application Interface NMEA (COM14)

NETGEAR DM Port (COM16)

NETGEAR NMEA Port (COM17)
```

(If you don't know how to access the Device Manager, see http://kb.netgear.com/app/answers/detail/a_id/22868.)

3. Configure your GPS application to use the same COM port. For help, see the documentation of the GPS application.

How Do I Access My Corporate Network Through a VPN?

Once you complete a wireless connection, you may need to launch an extranet client provided by your company and supply the appropriate user name and password to gain access. For support, contact your company help desk.

Are Terminal Sessions Supported?

Terminal sessions (for example, via telnet or ssh) are not supported.

Tips

The following topics provide information on getting the most out of your device and your network connection.

USB Modem Location

Follow these guidelines in placing your device.

- Avoid moisture or extreme temperatures.
- For improved reception, place the device near a closed window.
- Place your device within easy reach of a reliable power supply and the computer to which it will be connected.

Improving Signal Strength

There are several ways you can improve the signal strength.

- Make sure you're inside a network coverage area.
- Try reorienting your device.
- Move your computer to another location you may be in or near a structure that is blocking the signal. Every obstacle (for example, walls, ceilings, furniture) decreases the signal strength.
- Make sure there's plenty of space around your device to provide the best signal reception.
- If you cannot obtain service, contact Sprint a network or account problem may be preventing you from obtaining service.

Improving 3G Network Service

To improve your network service, periodically check for PRL and profile updates.

The PRL (Preferred Roaming List) is an account configuration item set by your service provider. It controls the radio channels and network carrier used by the 3G modem.

To check for these updates:

- 1. Log in to the home page. (See Logging In as an Administrator.)
- 2. Click Settings > Network > Preferences.
- 3. Click **Update PRL**.

Tips 52

Troubleshooting

Learn about various troubleshooting tips, and what to do when a specific message is displayed.

General Tips

Here are some general tips to get you started.

- Go to sprint.com/support to access troubleshooting and other resources.
- The knowledge base at the NETGEAR website (support.netgear.com) may also be useful.

OLED Display Is Dark

If the OLED display is dark, turn it on using the NETGEAR 341U Manager. See Turning the OLED Display On or Off.

Insufficient Signal Strength

If you have insufficient signal strength, an icon is displayed on the device's home screen, and on the NETGEAR 341U Manager's Status section.

Insufficient signal strength, indicated by igotimes, may occur because:

- You are outside network coverage areas.
- Your device's internal antenna is pointing in the wrong direction.
- You are in or near a structure that is blocking the signal.
- You are near a device that is causing radio signal interference.
- A network or account problem is preventing you from obtaining service.

See also Improving Signal Strength.

Cannot Display the Home Page

Your Web browser may display an error message when you try to display the home page. The error message depends on your Web browser.

- "Could not connect to remote server" (Opera)
- "Internet Explorer cannot display the webpage" (Internet Explorer)
- "Oops! This link appears to be broken" (Google Chrome)

Troubleshooting 53

- "Safari can't open the page" (Safari)
- "The connection has timed out" (FireFox)

Check the following:

- Your device is seated correctly in the computer's USB slot.
- Make sure you're typing the correct address in the Web browser.
 - Try http://SprintModem (unless you've changed the URL in Changing the NETGEAR 341U Manager URL.)
 - If the home page is still not displayed, try http://192.168.1.1 (unless you've changed the IP address in Changing the NETGEAR 341U Manager IP Address.)
- The Web browser is a recent version, and Java-enabled. The following are recommended:
 - Internet Explorer (version 7.0 or higher)
 - Mozilla Firefox (version 3.0 or higher)
 - Google Chrome (version 2.0.172.28 or higher)
 - Apple Safari (version 4.0 or higher)
 - Opera (version 9.64)
- If your computer has other adapters (for example, Ethernet) connected to other networks, disable or remove them from your computer.
- If Internet security software is running on your computer, disable it and see whether the error message still occurs. Some firewall software may block access to the home page.
- Check your Web browser settings:
 - 1. Open the Control Panel in Windows.
 - 2. Double-click Internet Options.
 - 3. From the **Security** tab, restore the default settings.
 - 4. From the **Connections** tab, select **Never dial a connection**.
 - 5. From the **Advanced** tab, restore the default settings.
 - 6. Close and reopen your Web browser.

If, after checking all of the above, you still cannot display the home page, consider resetting the software to default settings. See Resetting to Factory Default Settings for details.

Cannot Connect to the Mobile Broadband Network

If this message is displayed, go through the following steps.

Troubleshooting 54

- Make sure the device seated correctly in the computer's USB slot.
- Make sure you're in a network coverage area.
- Check the Network Mode setting (See Setting the Allowed Network Mode.) For example, if it's set to LTE Only, you won't be able to connect if you don't have LTE coverage.
- If you're roaming on 3G, make sure that roaming is enabled. (See Setting the Roaming Mode.) (Roaming is not supported on LTE.)

Note: Roaming charges may apply.

- If you're roaming internationally, make sure that Any Network is selected. (See Setting the Roaming Mode.)
- Try the tips in Improving Signal Strength.
- Check with Sprint a network or account problem may be preventing your device from obtaining service.

GPS Doesn't Seem to Be Available

Make sure that GPS is enabled. (See Enabling / Disabling GPS.)

For best results, minimize the number of obstructions between your device and the GPS satellites.

Cannot Check for Updates

Make sure the device is seated correctly in the computer's USB slot.

Troubleshooting 55

Technical Specifications

The following topics list the electrical, radio frequency, and other parameters of the device for those who require technical information.

Radio Frequency and Electrical Specifications

This section lists the radio frequency and electrical parameters of the device.

Item	Description
Approvals	FCC
Current	Maximum: ~700 mA
	Standby current:
	- CDMA: ~38 mA
	- LTE: ~46 mA
Transmit	PCS: 1850-1910 MHz
	Cellular: 824-849 MHz
	Secondary 800 MHz: 817-824 MHz
	LTE:
	- Band 25: 1850-1915 MHz
	- Band 26: 814-849 MHz
	- Band 41 (TDD): 2496-2690 MHz
Receive	PCS: 1930-1990 MHz
	Cellular: 869-894 MHz
	Secondary 800 MHz: 862-869 MHz
	LTE:
	- Band 25: 1930-1995 MHz
	- Band 26: 859-894 MHz
	- Band 41 (TDD): 2496-2690 MHz
	- GPS: 1575.42 MHz

Software Specifications

This section lists the specifications that the device supports.

Item	Description
CDMA (3G) specification	IS-2000 Release 0
Data service	IS-707A
3GPP	Release 9
SMS (IS-637)	Not supported
FAX	Not supported
IOTA	Supported
OTASP (IS-683A, IS-683B, IS-683C)	Supported
ОТАРА	Supported
PRL (Preferred Roaming List)	Supported
Authentication	Supported
Voice	Not supported
NAM	Single
Position Location	Standalone
TTY/Accessibility	Not supported
Mobile IP	Supported
Network protocols (routing hardware)	TCP, UDP, ARP, RARP, ICMP
VPN	Pass-through of the following VPN types:
	PPTP
	IPSec
	Tunneling of multiple VPN sessions simultaneously is supported.

Environmental Specifications

This section describes the environmental conditions that the device can be used in.

Item	Description
Operating temperature	32 to 113°F
Storage temperature	-4 to +185°F

Mechanical Specifications

This section describes the dimensions and physical features of your device.

Item	Description
Dimensions (W x L x H)	Width – 2.0"
	Length – 2.5" (hinge closed), 3.4" (hinge fully open)
	Thickness – 0.70" (hinge fully open)
Weight	55 g
OLED Display	Monochrome
	Area: 96 x 64 pixels
	Active area: 19.953 x 13.424 (mm)
	Pixel size: 0.193 x 0.194 (mm)

Safety Information

Read important safety information about your device.

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the NETGEAR 341U USB Modem are used in a normal manner with a well-constructed network, the device should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. NETGEAR accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the device, or for failure of the device to transmit or receive such data.

Safety and Hazards

Do not operate your device under the following conditions.

- In areas where blasting is in progress
- Where explosive atmospheres may be present
- Near medical equipment
- Near life support equipment, or any equipment that may be susceptible to any form of radio interference.

In such areas, your device MUST BE POWERED OFF. The device can transmit signals that could interfere with this equipment.

Do not operate the device in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the device MUST BE POWERED OFF. When operating, the device can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. The device may be used at this time.

The driver or operator of any vehicle should not operate the device while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some jurisdictions, operating such communications devices while in control of a vehicle is an offense.

Safety Information 59

Regulatory Notices

This section contains regulatory information for your device.

The design of the NETGEAR 341U USB Modem complies with U.S. Federal Communications Commission (FCC) guidelines respecting safety levels of radio frequency (RF) exposure for mobile devices, which in turn are consistent with the following safety standards previously set by U.S. and international standards bodies:

- ANSI/IEEE C95.1-1999, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300 GHz
- National Council on Radiation Protection and Measurements (NCRP) Report 86, 1986,
 Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields
- International Commission on Non-Ionising Radiation Protection (ICNIRP) 1998, Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)

FCC ID: PY3AC341U

RF Exposure - The NETGEAR 341U USB Modem has been tested for compliance with FCC RF exposure limits in a portable configuration. At least 1.0 cm of separation distance between the NETGEAR 341U USB Modem and the user's body must be maintained at all times. This device must not be used with any other antenna or transmitter that has not been approved to operate in conjunction with this device.

WARNING (EMI) - United States FCC Information - This equipment has been tested and found to comply with the limits for a Class B computing device peripheral, 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 or more 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.

CAUTION: Any changes or modifications not expressly approved by NETGEAR could void the user's authority to operate the equipment.

Regulatory Notices 60

This device complies with Parts 15, 24, and 27 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.

Regulatory Notices 61

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hash.c: chained hash tables

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3	APN
Cannot connect 54 Coverage type 31 Ec/lo of network connection 31 network service, improving 52 Overview 5 Roaming support 49 RSSI of network connection 31 Service type (PS) 31	Active 29 Authentication code 29 Configuring 42 Parameters 29 Password 29 Username 29 APN tab, Settings page 28 Apple Safari 2 Application notes 97 Authentication code APN 29
4G	В
Cannot connect 54	Backup settings 25
4G LTE Cannot connect 54	Band LTE network connection 31
A	Bands supported Receive 56
About page 33 Accessories, purchasing 4 Account Summary 19 Account information, accessing 4 activating the device 3 Activation Date, Sprint network 34 Date, viewing 39 Active APN 29 Administrator	Transmit 56 Basics 5 Billing and ;\ 49 Billing cycle Data usage 18-19 Reset displayed data usage 19 Bottom view of device 1 Box contents 2 Browsers supported 2 Buttons On device (drawing) 1
Logging in as 17 Password, changing 37	С
Administrator password Forgotten; what do I do? 49 Advanced settings 28 Alert Description 20 Title 20 Alerts 15 Common types 9 In NETGEAR 341U Manager 20 Allowed network mode, setting the 41 Altitude 23 Antennas, external 9	Cannot check for updates 55 Cannot connect to the 3G/4G network 54 Cannot display the home page 53 Care of your device 2 Carrier name 21 Changing the NETGEAR 341U Manager IP address 37 Changing the NETGEAR 341U Manager URL 37 Channel Number, LTE 31 UL, LTE 31 Check for Update 25

Chrome browser 2	Default settings
Clear Programming 26	Software, resetting 45
Common alert types 9	Default settings, software reset 45
Configure	Device
Device 23	Drawing (connectors and buttons) 1
Network settings 23	Information, viewing 33
OLED display 23	Model name 34
Configure Networks 39	Power state 34
Connect to Internet	Resetting 45
3G network service, improving 52	Setting up 3
Cannot connect 54	Settings, resetting 45
Launching a connection 10	Settings, restoring 43
Connect to mobile network, button 21	Settings, saving 43
Connected	Telephone number 34
How to tell you're connected to	Temperature 34
3G/LTE 49	User Guide 35
Connection	Device driver
3G network service, improving 52	Installing, TRU-Install (automatic driver
Information 6	installation), enabling or
Launching 10	disabling 11
Status 30	Device driver, installing
ConnectionStatus 31	Mac 12
Connectors on device (drawing) 1	Windows 11
Contents, package 2	Device tab, Settings page 23
Continuous GPS fix 23	Digital Rate Control
Copyright information 96	Channel number 31
Corporate network, accessing through	Cover 31
VPN 51	Value 31
Could not connect to remote server 53	Dimensions of device 58
Coverage	Disable
Type, 3G 31	GPS 47
Coverage maps 4	Disconnect from mobile network, button 21
Current power state 34	Display Settings 36
Current, electrical (specifications) 56	Domestic roaming guard 28
Customer Service, contacting 4	Downloading
3	Firmware 45
D	Software updates 44
Dark OLED display 52	Drawing of hardware 1
Dark OLED display 53	DRC
Data Plan tune 30	Channel number 31
Plan type 20 Transmit indicators 21	Cover 31
	Value 31
Data connection	Driver, installing
Launching 10	Mac 12
Data usage	TRU-Install (automatic driver
OLED display format 36	installation), enabling or
Data Usage 15	disabling 11
Data Usage details 18	Windows 11
Data usage, viewing 39	

Ec/lo 3G 31 Electrical specifications 56 Enable / disable GPS 23 Enable GPS 47 Environmental specifications 57 Export (device settings) 43 Export Settings 43 Exporting Device settings 43 External antennas 9	Disable 50 Enable 50 Enable ./ disable 23 Enable/disable 47 FAQ 49 Heading 23 Latitude 23 Limitations 50 Longitude 23 Metric units 23 Mode, setting 47 Not working or doesn't seem to be
F	available 55 Overview 50
Facebook link 35 Factory Reset 26 FAX 57 FCC (regulatory) notices 60 FCC ID 60 Feedback Link 33 Feedback page Settings tab 35	Satellites, number used 23 Speed 23 Standard units 23 Status 22 Streaming data 50 Timestamp 22 Units, select metric or standard 48 GPS page 21 GPS Settings 47
Firefox browser 2 Firewall software 54	Н
Firmware Bootloader version 34 Upgrading 45 Version 34 Version, NETGEAR 341U Manager 34 first time usage 3 Fix GPS, type of fix 23 fontconfig License 88 Forgot administrator password 49 Frequencies, transmit and receive 56 Front view of device 1	hands-free activation Re-run 28 Hardware (drawing) 1 Hazards 59 Heading 23 Height of device 58 Help 3 Help, getting Customer Service, contacting 4 FAQ (Frequently Asked Questions) 49 Sprint website 4
G	Tips 52 Troubleshooting 53
General Public License, GNU 62 General Tips 53 GNU General Public License 62 Google Chrome 2 GPL (v2) License 62	Home page 16 Cannot display 53 Home Page 16
GPL (v2) License 62 GPL (v3) License 68 GPS Altitude 23 Availability 50	ICCID 31, 34 Icons network service type, active 5

OLED display 14 Signal strength 6	Login password Changing 37
Import (router settings) 43	Forgotten; what do I do? 49
Import Settings 43	Longitude 23
Important notice 59	LTE
Importing device settings 43	IP address of 3G network
IMSI, LTE 31	connection 31
Information about your device 33	IP address of LTE network
Installation requirements 2	connection 31
Installing the device 3	Overview 5
International roaming guard 28	Radio channel number for LTE network
Internet connection	connection 31
data usage, viewing 39	Roaming support 49
Information 6	RS-SINR of LTE network
Launching 10	connection 31
Internet Explorer browser 2	RSRP of LTE network connection 30
Internet Explorer cannot display the	RSRQ of LTE network connection 31
webpage 53	TX power of LTE network
IOTA 57	connection 31
IP address	Upload channel for LTE network
3G 31	connection 31
LTE 31	COTTILECTION 31
NETGEAR 341U Manager 24	M
NETGEAR 341U Manager,	
changing 37	Mac operating system
NETGEAR 341U Manager,	Driver, installing 12
configure 23	Maintenance of your device 2
WWAN radio 34	Manage your Sprint account by
ISC License 93	telephone 33
	Manager
K	Settings 36
Vnowledge hood F2	Manual configuration 28
Knowledge base 53	MDN 31
L	Mechanical specifications 58
	MEID 34
Latitude 23	Metric units for GPS 23, 48
LBS 21	Micro-SIM 7
Legal 62	micro-SIM, slot location 1
Length of device 58	MIMO antennas 9
LGPL (v2.1) License 78	Mobile broadband
LGPL (v3) License 86	Connection details 30
Liability, limitation of 96	overview 5
libxml2 License 89	settings 5
Licenses 62	Signal strength 6
Limitation of liability 96	Mobile Directory Number of device 31
Limitations, GPS 50	Mobile Station Identifier 31
locapi License 91	Model
Location Based Services 21	Name, device 34 Mozilla Firefox 2
Logging events 26	IVIOZIIIA FILEIOX Z

MSID 31, 34	0
My Sprint link 20	OLED display 7, 14
N	Alerts 15
NETGEAR 341U Manager Data Usage details 18 GPS page 21	Data Usage 15 Dimensions 58 Icons on OLED display 14 Not lit 53
IP address 24 IP address, changing 37 IP address, configure 23 Password, changing 37	Set data usage display format 36 Show billing cycle or session usage 24 Turn on/off 24, 36 OLED Display 14
Settings page 23 URL 24	One-time GPS fix 23 Oops! This link appears to be broken 53
URL, changing 37 URL, configure 23 Version 34	OpenSSL License 93 Opera browser 2
Version number 34 NETGEAR 341U Manager Home page	Operating temperature 58 Operator name 21 Original SSLeay License 94
Description 16 Displaying 17	OTAPA 57 OTASP 57
Logging in as an adminstrator 17 NETGEAR 341U Modem Model name 34	Р
NETGEAR 341U USB Settings, resetting 45	Package contents 2 Password
NETGEAR knowledge base 53 Network	Administrator, changing 37 Administrator, forgotten - what do I
3G, overview 5 Activation date, viewing 39 Cannot connect 54	do? 49 APN 29 Patents 62
Carrier name 21 Connection details 30	pimd License 91 Place for your device, tips 52
Connection status 30-31 Indicator 6	Preferred Roaming List 28 PRL
LTE, overview 5 Mode allowed, setting the 41 Protocols supported 57	Version 32 Version number 34 PRL, update 28
Service, 3G, improving 52 Status indicator 6 Type to connect 27	Problems 57 Protocols, network, supported 57 PS service type, 3G 31
Type, current connection 21 Network Connection 10	Q
Network Preferences tab, Settings page 27 Network Settings 40	Questions, frequently asked (FAQ) 49
Network, corporate, accessing through VPN 51	R
Notice, important 59 Notices, regulatory 60	Radio frequency (RF) specifications 56 Receive data indicator 21 Receive frequencies 56

Refurbished date 34	Service plan, add additional options 4 Serving Cell ID 31
Regulatory notices 60 Require SIM PIN to use device 29	•
·	Serving SID (home network area identifier)
Requirements Installation 2	32
	Session
Reset 43	Data usage 18
Resetting	Session data usage 19
NETGEAR 341U USB settings 45	Session duration 19
Software to default settings 45	Setting up the device 3
Your device 45	Settings 36
Resetting the software to default settings 45	Backup 25
Restarting the device 6	Exporting 43
Restore settings 25, 43	Importing 43
RF (Radio Frequency) specifications 56	Restore 25
RF Exposure notice 60	Settings page 23
Roaming	APN tab 28
3G support 49	Device tab 23
Indicator, Zing Manager 31	Network Preferences tab 27
LTE support 49	SIM Security tab 29
Message 21	Software and Reset tab 24
Mode 27	Status Details tab 30
Mode, setting 40	System Logs tab 26
Status 21	Settings Reset 26
Roaming Guard 28	shadow License 92
Roaming Guard warnings,	Short text messaging (SMS) 57
enable/disable 41	Signal Information 6
Routing hardware	Signal strength 21
Resetting to default settings 45	Improving 52
Routing hardware settings reset	Insufficient 53
Performing 45	Mobile broadband 6
RS-SINR	SIM
LTE 31	ICCID 34
RSRP 30	Security, activate or deactivate 29
RSRQ 31	SIM Security tab, Settings page 29
RSSI 31	Size of device 58
Improving 52	SMS 57
Insufficient 53	Software 43
Rx (receive) frequencies 56	Resetting to default settings 45
	Specifications 57
S	Updates, downloading 44
Safari browser 2	Software and Reset tab, Settings page 24
	Specifications
Safari can't open the page 54	Electrical 56
Safety and hazards 59	Environmental 57
Safety Information 59	Mechanical 58
Satellites, number used for GPS fix 23	Radio frequency (RF) 56
Saving device settings 43	Software 57
Security	Speed, GPS 23
SIM PIN required to use device 29	Sprint Customer Service, contacting 4
Send data indicator 21	. ,

Sprint website 4	network 54
ssh support 51	Cannot display the home page 53
SSLeay License, Original 94	General tips 53
Standard units	TRU-Install 11
Use for GPS 23	TTY support 57
Standard units for GPS 48	Twitter link 35
Standby current 56	TX
Start 1	Power, LTE 31
Status	Tx (transmit) frequencies 56
Connection details in NETGEAR 341U	U
Manager 20	0
Status Details tab, Settings page 30	Update network settings 28
Storage	Update PRL 28
Temperature 58	Updates
Storage guidelines 2	Cannot check for 55
Streaming GPS data 50	Upload channel for LTE network
Support	connection 31
Website link 33	URL
Support page 32	NETGEAR 341U Manager 24
Support, contacting 4	Usage guidelines for your device 2
System Logs tab, Settings page 26	USB
System requirements 2	Connecting device to your computer 10
Т	Connecting device to your computer
•	through USB 10
Technical Specifications 56	USB Modem
Technical support, contacting 4	Firmware 44
Telephone number, device 20, 31, 34	Software 44
telnet support 51	User guide
Temperature 34	Location 33
Operating 58	On device 35
Storage 58	Username, APN 29
Terminal sessions 51	V
Text messaging (SMS) 57	V
The connection has timed out (message) 54	VPN
Timeout	Accessing 51
Connection timeout (cannot display the	Passthrough types supported 57
home page) 53	
Tips 52	W
Trademarks 96	Warning (EMI) 60
Transferred amount total	Web browsers supported 2
3G 34	Website
LTE 34 Transmit	NETGEAR 97
Data indicators 21	Sprint 4
	Weight of device 58
Transmitter power	Width of device 58
Transmitter power LTE 31	WiMAX (4G)
	Frequencies 56
Troubleshooting Cannot connect to the 3G/4G	Windows driver, installing 11
Carrior Cornico to the 30/40	

WWAN radio IP address 34