

iR1200 Modem

Quick Reference Guide

What's the Problem?	What it means:	How to Resolve:
Modem will not power down.	The wiring to the modem may not be connected properly.	<ul style="list-style-type: none">• Check the ignition sense wiring to be sure that it is connected.• Verify that the diagnostic port is plugged in correctly.• Check LED status to see if the modem is communicating.

NOTE: The Status LED remains red for up to 3 minutes after power is applied to the iR1200 or immediately after the Reset button is pressed.

The following important information will allow you to safely operate the iR1200 and iR1200 GPS-Enabled modems.

Safe Operating Guidelines

Your modem contains a transmitter and receiver. When it is ON, it receives and transmits radio frequency (RF) energy. This product is authorized by FCC Rule Part 47CFR 2.989 which states that it should be used in such a way that it maintains a distance of at least 8 inches (20 cms) between the radio's antenna and the human body.

Medical and Personal Electronic Devices

Most electronic equipment is protected from RF energy. However, certain equipment may not be shielded against RF signals being emitted from your modem.

Pacemakers

Operators should not use the modem if individuals with pacemakers are within 6 inches (0.15 meters) of the antenna.

Hearing Aids

The modem may interfere with hearing aid devices. Individuals who experience such interference should consult the hearing aid manufacturer to discuss alternative solutions.

Other Medical Devices

Individuals who have other medical devices not specifically mentioned in this guide may want to consult their physician or device manufacturer to determine if it is adequately protected from external RF energy.

Interference with Other Electronic Devices

RF energy may affect improperly installed or inadequately protected electronic operating and entertainment systems in motor vehicles. Check with the manufacturer or representative to determine if these systems are adequately shielded from external RF energy.

For Customer Care, please contact your technology administrator or designated field-care representative:

Contact Number:

Record your installer's contact information for future service needs or questions.



Introduction

The iR1200 modem is designed to work specifically within the iDEN® network. Once installed and configured, it provides you with wireless data communications. This quick reference guide provides important information for operating your modem.

Getting Started

The modem is designed to power up or turn ON when an ignition signal is sensed.

Power Up from Vehicle:

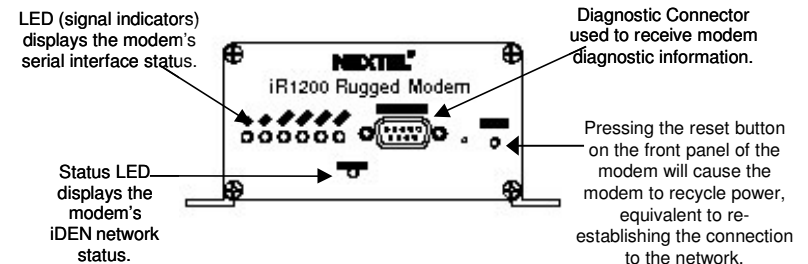
1. Turn ON your iR1200 modem by simply starting your vehicle.
2. The modem automatically turns on and connects to the Nextel network (this process may take up to 3 minutes).
3. Turn on your mobile device (e.g., laptop, Mobile Data Terminal (MDT), etc).
4. Use your mobile device to receive or send information.

Power Up from Building or Desktop:

1. Insert the ignition bypass plug into the IGNITION connector located on the back panel of the modem.
2. Turn ON your iR1200 modem by plugging the power connector into a 12-volt DC power supply.
3. Turn on your mobile device (i.e. laptop, MDT, etc.).
4. Use your mobile device to send and receive information.

LED Indicators and Statuses

LEDs on the front panel of the modem indicate whether it is operating appropriately. The following table summarizes what each LED indicates.



Quick Reference Guide

The following table will help you determine if the modem is communicating appropriately.

Signal	Color	Indication
Tx	Blinking Green	Modem is transmitting data to the computer data terminal.
Rx	Blinking Green	Modem is receiving data from the computer.
RTS	Green (Off)	Request To Send from computer is asserted (not asserted).
CTS	Green (Off)	Clear To Send from modem is asserted (not asserted).
DTR	Green (Off)	Data terminal equipment is ready (not ready).
DSR	Green (Off)	Modem is ready (not ready).
STATUS	Solid Red	The modem is searching for a signal within the Nextel network. If the modem status changes from blinking green back to solid red, the signal has been lost and the modem is attempting to re-acquire. NOTE: If after a period of several minutes, the status does not return to green, you may be out of range. The modem will attempt to re-acquire automatically when you are back in range.

The STATUS indicators are different depending on the type of mode the modem is operating in. The following table lists the STATUS indicators for the Packet Data and Circuit Switched Data modes.

Packet Data:

STATUS	Blinking Green	In-range (modem is connected to the Nextel network) but idle (not passing data).
STATUS	Blinking Green	The modem is in use – Nextel network communication is active and is passing data.

Circuit Switched Data:

STATUS	Blinking Green	In-range (modem is connected to the Nextel Network) but idle (not passing data).
STATUS	Solid Green	The modem is in use – Nextel network communication is active and is passing data.



Common Problems

What's the Problem?	What it means:	How to Resolve:
Nothing happens when I power up the modem.	This indicates that there is no power being supplied to the modem.	There are several things that could be wrong. Go through this list and eliminate all the possible problems: <ul style="list-style-type: none"> Is the ignition on? Is the ignition bypass plug inserted into the IGNITION connector on the modem (for building installations)? Check the power supply and make sure that everything is connected properly. Is the battery voltage at least 12 volt? Check the cables and wiring.
The modem has power but the LED Status light is not blinking green.	<ul style="list-style-type: none"> You may not be within coverage area. Signal strength may be weak. 	<ul style="list-style-type: none"> Antenna may be loose. Check to make sure the antenna is properly connected. Reposition the antenna.
The modem doesn't appear to be communicating.	This could indicate a number of things (see the How to Resolve column to eliminate the possibilities).	<ul style="list-style-type: none"> Is data cable plugged into the diagnostic port? Is data cable connected properly to the mobile device or computer? Check the RSSI (Receive Signal Strength Indicator) Check coverage: <ul style="list-style-type: none"> Move to another location to see if coverage is not affected. Verify that your account has been activated. Contact your technology administrator or designated field care representative.
GPS does not operate.	Either: <ul style="list-style-type: none"> Coverage in the area is bad. Antenna may be improperly installed or is defective. 	<ul style="list-style-type: none"> Verify that the antenna has direct line of sight to satellite. GPS does not operate effectively indoors. Move to another area.
GPS is slow.	It is normal for GPS to take up to 5 minutes to acquire the first reading.	<ul style="list-style-type: none"> Wait for an appropriate amount of time for communication to take place. If attempts are taking longer than 5 minutes, contact your technology administrator.