
Activate, Register the Verizon Wireless Internet the GS- Internal CDMA modem inside the GS16 GNSS Receiver.

Turn on the GS16 GNSS Receiver and CS20 Data Controller, make sure you have an active Bluetooth connection between the GS16 GNSS Receiver and the CS20 Data Controller; from the Leica Captivate Software,

On the CS20 Data Controller, Select/tap > Fn Instrument,

Select (•) Use GS only, then Select/tap F1 OK button, User is return to Captivate Home screen,
Select/tap Settings,

From the Settings panels,

Select 1 Connections,
From the Connections panel,

Select/tap, 4 All other connections,

From the Connection Settings panel,
Select GS connections panel, Select/tap F3 Edit button,
From the Internet Connection panel,

Select/tap F5 Device

This is a VERY Important Step!!!
Be sure the Check Mark is active,

DO NOT Select “Use user ID & Password” [ ] Check Box in this panel, this is NOT for your NTRIP User ID & password, this User ID & password that could be required for the Cellular Service Provider. In the USA & Canada, a Username & password is no longer required for the Internet connection.

From the GPRS Internet Devices panel,

Select the Cint. PXS8 CDMA Device,
Select/tap F1 OK button,
Select/tap F1 OK, button again…

The User is returned to the Connection Settings panel,
From the Connection Settings | GS Connections panel.

![Connection Settings](image)

Select/tap F5 Info button,

From the CDMA Information panel,

![CDMA Information](image)

Select/tap the, F3 Reg button,
The CS20 Data Controller will Register the Cinterion PXS8 CDMA modem inside the GS16 GNSS Receiver, for the active Verizon Wireless Data Plan, assigned to the IMEI / MEID Number.

Note, the GS16 GNSS Receiver’s Cinterion PXS8 Cellular Modem’s MEID number, this is unique to this GS16 GNSS Receiver and the GS Internal Cinterion PXS8 CDMA modem device.

This process may take a few minutes, be patient...

Note: The End User must have already provided the GS16 GNSS Receiver’s Internal GS Modems IMEI number, the (Unique MEID Number), to Verizon Wireless, requested a “Machine to Machine Data Plan”, typically the from Verizon Wireless, Verizon Wireless activates the Customer’s Data Plan, sends an “Over the Air” activation over the Verizon Wireless Network, based on the GS16 GNSS Receivers’ unique MEID, (Mobile Electronic ID), or IMEI, (15-Digit Number) for the GS16 GNSS Receiver’s Internal GS PXS8 Cellular Data Modem.

After Verizon Wireless has sent the “Over the Air Activation”, the End User using the Leica Captivate software on the CS20 Data Controller, performs a “REG”, or Registers the GS16 GNSS Receivers’ Verizon Wireless Data Service on the GS16 GNSS Receivers’ Internal Cinterion PXS8 CDMA modem.

When the Verizon Wireless CDMA Activation is successful, Select/tap the @ symbol on the top row Task Bar, Then Select/tap the Connectivity panel,
Inspect/view the **RTK Connection status**, especially the:

- **CDMA network found**  \[✓\]
- **Connected to the Internet**  \[✓\]

This is a visual indication the GS16 GNSS Receiver’s Internal GS Cinterion PXS8 CDMA modem is Connected to the Internet via the Verizon Wireless Cellular Network.

Select F1 OK, then select F1 OK, again to return to Leica Captivate – Home screen.

From the Leica Captivate – Home screen,

![Leica Captivate - Home](image)

Note/observe the @ Symbol on the Top Row Task Bar,

The End User can now configure the Settings > Connections > RTK Rover Wizard, Configure the NTRIP Server/Mount Point details, consisting of the NTRIP Server Name, the IP Address, (or Domain Name), the TCP/IP Port Number, and the User’s NTRIP Username & Password Credentials, then Start the RTK Data Stream, then begin the Network RTK Survey, start Measuring or Staking Out points.
NOTES:

The GS16 GNSS Receiver’s – GS PXS8 CDMA Modem IMEI Number:

Provide the GS16 GNSS Receiver’s – GS PXS8 CDMA Modem IMEI Number to Verizon Wireless retain a copy for future reference.