

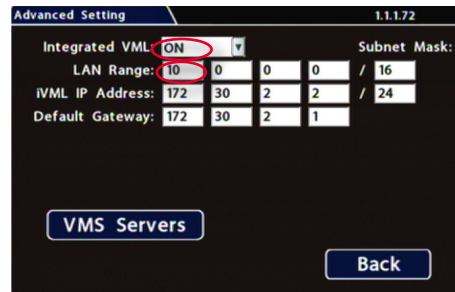
Step 5: Configure the Recorder

Note: Live Streaming/Automatic Vehicle Location

This step is only required for installations using Automatic Vehicle Location (GPS) or Live Streaming features.

If you need more information, contact Technical Support.

- In the recorder menu, select **Configuration**→**Network**→**Advanced**.
- Set **Integrated VML** to **ON**.
- Enter a value in the **LAN Range**:
 - If *Wi-Fi is not installed*: enter **10** into the first octet.
 - If *Wi-Fi is installed*: contact Technical Support.
- Click **Back** to save settings.



Note: Recorder firmware

If the modem will communicate with a legacy DVR (DX-HD or TL 4/2), confirm the DVR is running current firmware. If required, contact Technical Support for a DVR Firmware Upgrade Kit.

Service & Support

If your Smart-Reach 3 device is to be returned for service, please contact the Safe Fleet technical support team, provide the part and/or serial # of your unit, and ask for a **Return Merchandise Authorization (RMA)** number. An **RMA #** allows the support team to better track your product when it comes in for service. Please show the RMA # on the **outside** of the package.

ANY PRODUCT SENT WITHOUT AN RMA # MAY BE REFUSED!

Documentation and Warranty

Information is subject to change without notice. For the latest product details, please visit the Safe Fleet Community. Additional copies of this guide along with other documentation and product warranty can also be found on the Safe Fleet Community.

Safe Fleet Community Web site: <https://community.safefleet.net>

Technical Support

Phone: 1.844.899.7366 Email: PTsupport@safefleet.net

Step 6: Verify System Operation

*This step is only required for installations using the Live Streaming or Automatic Vehicle Location features. If you need more information, contact Technical Support.

Follow the instructions for "Provisioning Smart-Reach Cellular" on the Safe Fleet Community in the Installer Resources section:

<https://community.safefleet.net/tutorial/provisioning-sr-cellular/>

Troubleshooting

The following table provides information and procedures for troubleshooting the Smart-Reach Cellular interface and the SF Cloud Application Suite/vMax software:

Symptom	Possible Cause	Potential Solution
The Embedded Modem State LED (see "LED Status Indicators") flashes continuously	The modem is activating/provisioning and attempting to connect to the mobile network.	Wait 5-10 minutes. The Embedded Modem State LED turns solid green when connection is successful.
Smart-Reach Cellular will not start	The power cabling may not be completely connected.	Check cable connections.



Driving Safety Forward™

The Smart-Reach Cellular v3 (a.k.a. S750) works with Safe Fleet recorders to provide remote access to live streaming video, vehicle location, and telemetry data.

IMPORTANT: Professional Installation

The procedures in this Guide must be performed by a professional installer, with approval from the Safe Fleet technical support team.

Kit Contents

- Cradlepoint S750 Modem (032-1108 or 032-1107)†
 - Includes #8 x 3/4" Phillips self-drilling mounting screws (Qty. 4), 6.5ft./2m power harness (4-pin), 2A fuse/holder, 1A fuse/holder, and butt splice connectors (Qty. 2)
- † Includes Safe Fleet data plan
- Cellular/LTE, MIMO, and WIFI antenna, 6.5 ft./2m leads (085-1153)
- Ethernet (CAT5e) Patch Cable (085-1116 - 6-ft/1.8m)

Installation Requirements

Modem

Location Avoid exposure to water drips and installation locations with heat, moisture or excessive dust. Do not mount to a plastic panel or other surface that is subject to constant vibration. Choose a secure location to prevent tampering with the device or connections.

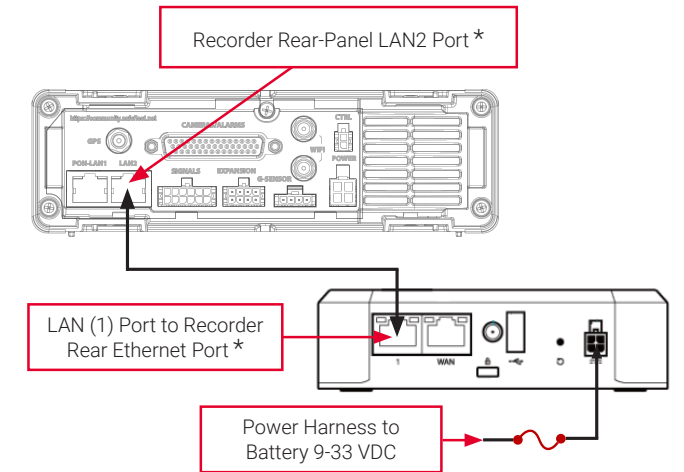
Harnesses Route wiring and cables away from sharp edges that might damage insulation. Avoid sharp bends in cables.

Clearance Provide sufficient clearance for easy access to connectors. Ensure status lights are visible, and allow for adequate airflow.

Smart-Reach Cellular v3 S750

Quick Installation Guide

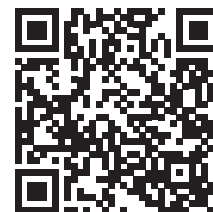
General Installation (Power and Data)



*Rear Ethernet port usage varies by recorder model. See "Recorders - Rear Ethernet Ports" below.

Recorders - Rear Ethernet Ports

Recorders	Rear Ethernet Ports
DH4v2, DH6, DH8	LAN2
NH16v2, NH16, NH16K, TH8, TH6	MODEM
DH4, DH4C, TH4C	POE-LAN
TH4	WIFI
HX/NX	MODEM
DXHD	LAN2 or LAN3



Scannable QR code linking to Smart-Reach documentation on the Safe Fleet Community.

Step 1: Mount the Modem

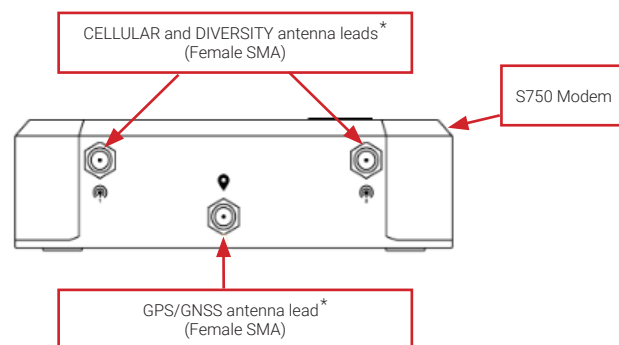
1. Follow the Installation Requirements on page 1 to find a mounting location and choose an orientation for the modem.
2. Use the holes on each side of the device enclosure to mark drilling positions, and drill the four screw holes.
3. Fasten the Smart-Reach Cellular to the mounting surface with the four provided screws.

Step 2: Install the Antenna



1. Choose a flat mounting location on vehicle's roof. Ensure antenna leads (6.5 ft./2 m) can reach the modem.
2. Drill a pilot hole, then increase the hole diameter to 3/4" (19 mm). Remove any hole-cutting burrs.
3. Remove the protective backing from the underside of the antenna and feed the cables through the panel.
4. Position the antenna's long surfaces parallel with the side of the vehicle to minimize front profile.
5. Seat the antenna's threaded connector through the vehicle hole and stick the antenna to the roof panel by applying downward pressure.
6. Inside the vehicle, thread the lock-washer and nut onto the connector.
7. Tighten the nut until it stops firmly on the lock-washer. Do not over-tighten.
8. If any area around the antenna base is not fully compressed against the roof, seal completely with silicone.

Antenna Connections



*The "WIFI 1" lead is not used - bundle and stow it securely

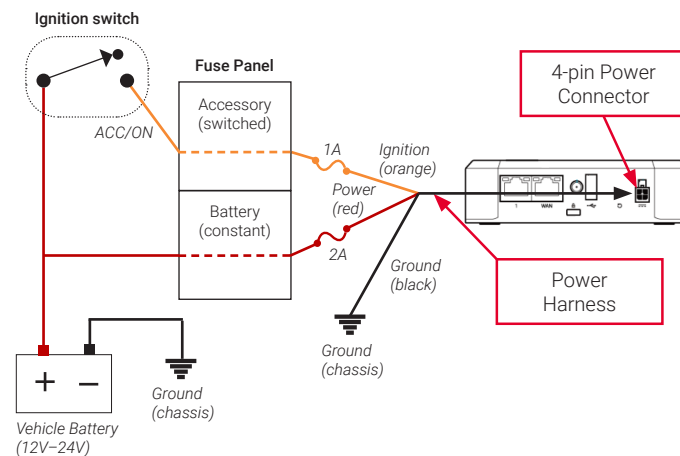
Step 3: Connect Power

1. Connect the red wire from the S750 power harness to the 2A fuse holder.
 - i. Crimp the power harness's red wire on the end of the step down butt splice that has a *red stripe*.

Step Down Butt Splice



- ii. Crimp the fuse holder's black wire on the other end of the butt splice.
2. Insert the fuse in the holder, and connect the fuse holder to battery positive.
 3. Connect the black wire to chassis ground.
 4. Connect the orange wire from the S750 power harness to the 1A fuse holder.
 - i. Crimp the power harness's orange wire on the end of the step down butt splice that has a *red stripe*.
 - ii. Crimp the fuse holder's black wire on the other end of the butt splice.
 5. Insert the fuse in the holder, and connect the fuse holder to the ignition (or accessory) switch.
 6. Connect the power harness to the modem's 4-pin power connector.



Step 4: Connect to Recorder

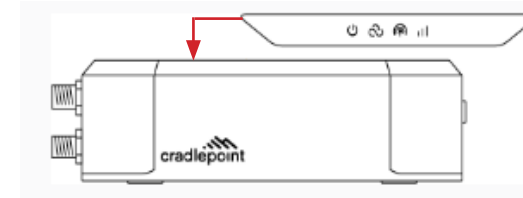
- Connect the Ethernet patch cable (085-1116) from the S750's LAN (1) port to the **recorder's rear-panel Ethernet port***.

* see "Recorders - Rear Ethernet Ports", on page 1

WARNING: Do not "dogbone" antenna cables

LED Status Indicators

S750 Modem - LED Panel



The S750 modem uses LED lights to communicate various status conditions. Use the chart below to verify the status of your modem after the boot up cycle.

Power-on the Smart-Reach Cellular. LEDs display operational conditions as indicated.

LED	Function	Behavior
	POWER - Detects that the unit has power	No light - Not receiving power. Check power switch/source connection Solid white - Powered on
	NETCLOUD MANAGER STATE - Detects whether the device is able to connect to NCM	No light - Unable to connect to Netcloud Manager Solid white - Connected to Netcloud Manager
	EMBEDDED MODEM STATE - Indicates information about the integrated moem	No light - Modem not detected Solid green - Modem has established an active connection Flashing green - Modem is connecting Solid yellow - Data connection error Flashing yellow - Modem is in the process of resetting Solid red - Carrier reject Flashing red - No SIM or SIM door open
	CELLULAR HEALTH - Indicates the health of the cellular modem's signal	No light - No cellular connection Solid green - Cellular health is excellent/good Solid yellow - Cellular health is fair Solid red - Cellular health is poor

Fold Here