

## DEVICES DESCRIPTION

### ❑ 9602-LP

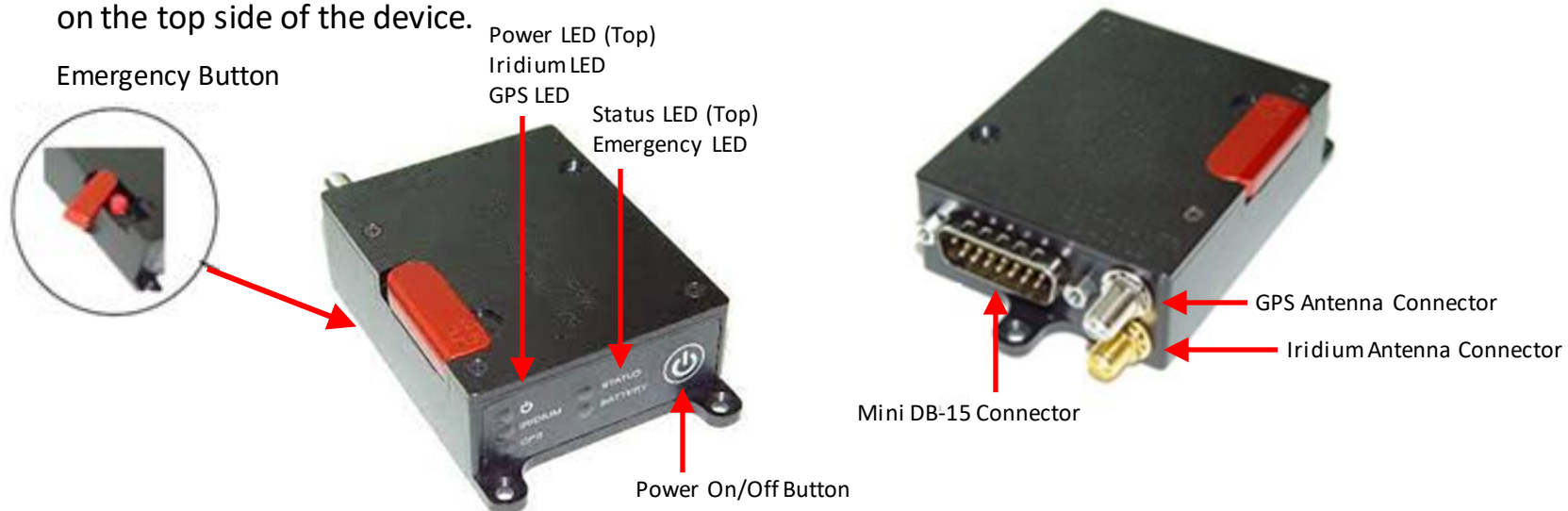
The 9602-LP is a satellite tracker designed to operate with the Iridium low-Earth orbit satellite network. It comprises an Iridium 9602 transceiver module; and a 50-channel GPS receiver. The 9602-LP allows only SBD connectivity to the Iridium satellite network.

### ❑ 9602-LP-BTI

The 9602-BTI is a variation of the original 9602-LP. It functions the same as the 9602-LP, but also is built more ruggedly to be waterproof and weather-resistant in order to endure more hostile environments.

❑ **LED Settings:** There are five (5) status LEDs that provide quick visual check to ensure proper operations . These include Power indicator, Iridium signal strength, GPS availability, SBD transmission status, and Emergency mode alert. NOTE: The 9602-LP ships with all LEDs set to ACTIVE.

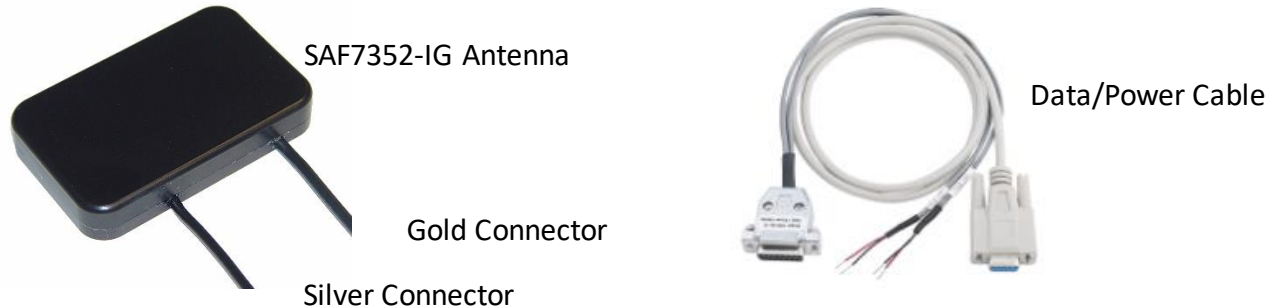
❑ **Connectors:** On the backside of the 9602-LP there is a mini DB-15 connector, an Iridium SMA female 50-ohm antenna connector, and a GPS SMA female 50-ohm antenna connector. The Emergency button is located on the top side of the device.



## DEVICE DESCRIPTION (Continued)

☐ **Antennas:** NAL Research recommends the SAF7352-IG model antenna.

**CAUTION:** Do not connect or disconnect the antenna when the 9602-LP is turned on.



## POWER ON DEVICE

The 9602-LP accepts either +3.6 VDC to +5.3 VDC input through pin #1 or +6.0 VDC to +32 VDC input through pin #9. The 9602-LP ships with hardware set for +6.0 VDC to +32 VDC input.

1. With the device turned off, connect the Iridium antenna (gold) connector to the Iridium (gold) connector port and connect the GPS antenna (silver) connector to the GPS (silver) connector port.
2. Ensure the antenna has a full view of the sky and the cable loss between the tracker and antenna is less than 2 dB.
3. Supply the appropriate DC power to the 9602-LP via a data/power cable.
  - a) Connect external power input (+6.0 VDC to +32 VDC – Factory default) to Pin #9 on the multi-interface connector.
  - b) Connect external power input (GND) to Pin#2.
    - The 9602-LP defaults to “Tracking” mode and begins tracking.
    - The device automatically powers up when external power is applied. This can be changed via configuration.
    - The cable that supply power to the 9602-LP should be as short as possible to prevent significant voltage drop, which can cause the 9602-LP to malfunction during an SBD session.

**Change Voltage Input to +3.6 VDC to +5.3 VDC**



**IMPORTANT** Power must be disconnected before resetting the jumper.

1. Remove the modem's top plate to find the jumper.
2. Set the red jumper onto the middle and top pins.  
 NOTE: To reset the input voltage range back to +6.0 VDC to +32 VDC, set the red jumper onto the middle and bottom pins.

**EMERGENCY MODE**

- Activate:** Quickly press and release the **Emergency** button to trigger emergency tracking. When emergency tracking is active, the Emergency LED illuminates. You can also activate emergency tracking via input Pin S0.
- Deactivate:** Press/hold the **Emergency** button longer than three (3) seconds to take the 9602-LP out of emergency tracking.

**POWER OFF DEVICE**

1. Press the **Power** button  for two (2) seconds to turn off the device.  
 NOTE: Depending on device configuration, press the **Power** button  for two (2) seconds to turn the device back on.

**IMPORTANT:** The antenna must have a clear view of the sky during transmission.



Jumper used to set input voltage range



Emergency Button