

ARADA SYSTEMS



LocoMate Commando Installation Guide

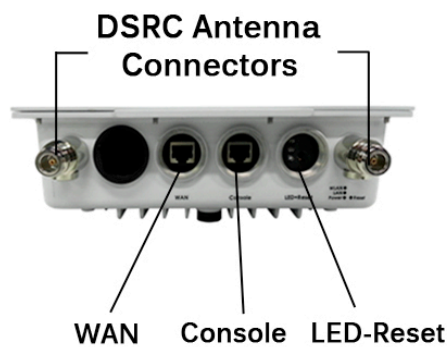
Package Contents

- LocoMate Commando Road Side Equipment, Qty 1
- Commando Mounting Installation Kit, Qty 1
- GPS Antenna, Qty 1
- GPS Antenna Mounting Kit, Qty 1
- DSRC Antenna, Qty 2
- PoE Power Injector with Installation Guide, Qty 1

Top View



Bottom View



Federal Communication Commission Interference Statement

This device complies with Part 15 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.

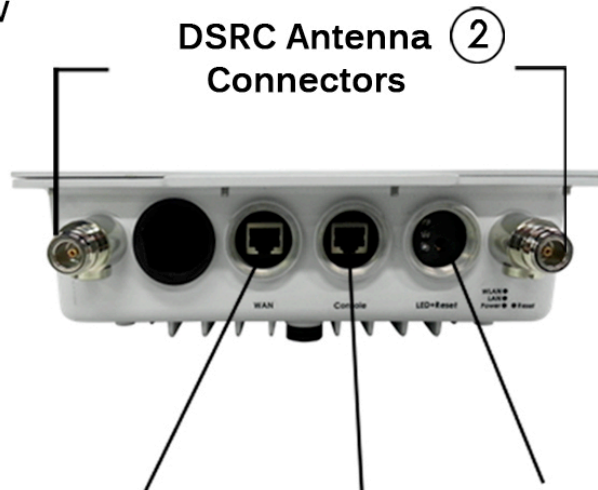
Product Overview

Top View



GPS Antenna Connector ①

Bottom View



WAN ③ Console ④ LED-Reset ⑤

- ① GPS Antenna: Refer to instructions on page 3
- ② DSRC Antennas: Refer to instructions on page 4
- ③ WAN Port: Connect this to the uplink port (this port supports IEEE 802.3af/at PoE).
Follow instructions on page 7 for PoE injector installation.
- ④ Console: RJ-45 based console interface. This is compliant with Cisco console cables.
- ⑤ LED-Reset: Refer to below diagram for LED indicators.

*Note to service engineers: Reset button is accessible by removal of the IP67-rated transparent cover on this port. After accessing the reset, be sure to close the IP67-rated cover onto the port for future operations in an outdoor environment.

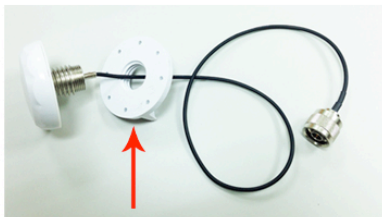


Installing GPS Antenna

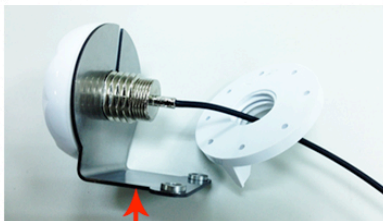
1. Take out the GPS antenna and GPS antenna mounting kit from the Commando package.



2. Unscrew the bottom cover of the GPS antenna.



3. Insert the mounting plate between the top and bottom parts of the GPS antenna, as indicated below.



Insert here

4. Screw the bottom part of the GPS antenna back tightly.

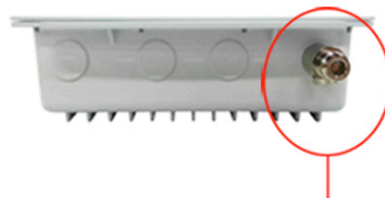


5. Using the screws included in the GPS antenna mounting kit, install the GPS antenna (with mounting plate) to the upper right hand corner of the LocoMate Commando, as follows.

5.



6. Connect the other end of the GPS antenna cable (with N-type connector) to the GPS antenna connector on the Commando.



GPS Antenna Connector



Installing DSRC Antennas

1. Remove two DSRC antennas from their packages.



2. Screw each antenna onto the antenna connector on the bottom of the Commando enclosure, as indicated below.



DSRC Antenna Connectors

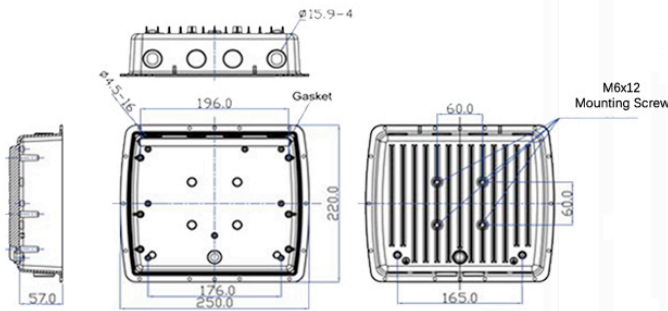


Note: If you are installing directional patch DSRC antennas, connect the antenna cables to the same DSRC antenna connectors on the Commando enclosure, then position the patch antennas at desired areas for best performance.



Mounting Installation Guide

Enclosure Dimensions



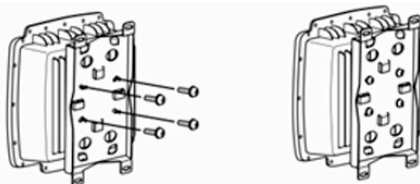
Mounting Kit Package Contents



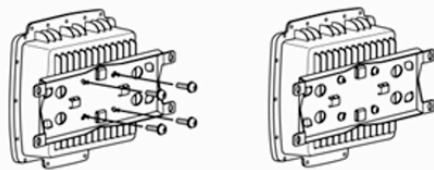
Installing LocoMate Commando on the Pole

Attach the wall mount plate to the back of LocoMate Commando using M6x12 screws and washers.

1. Vertical

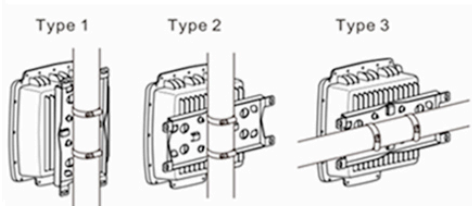


2. Horizontal



Mounting For Pole

Fix the wall mount plate with LocoMate Commando to the pole using stainless tie back straps.



Pole Diameter Range = 5 1/8" to 6"
(130 to 152 mm)



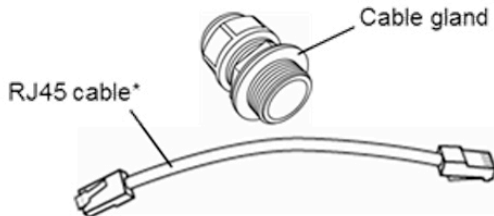
- Weight: 6.96lbs with antennas and accessories
- Dimensions (when mounted):



***IMPORTANT:** Make sure to mount the Commando in a location having clear access to the open sky for best GPS performance.

Cable Gland Installation Guide

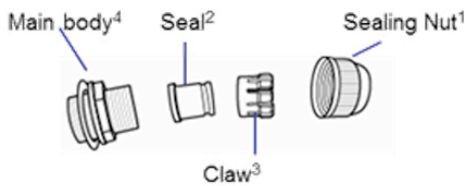
Contents



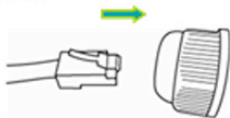
*RJ45 cable is not included in the cable gland kit.

Installation Process

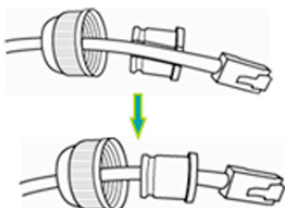
1. Separate the cable gland into individual parts and emplacements as shown below.



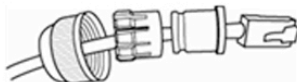
2. Insert the RJ45 cable* into the Sealing Nut as shown below.



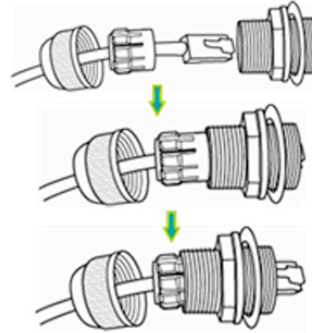
3. Insert the RJ45 cable* into the Seal as shown below.



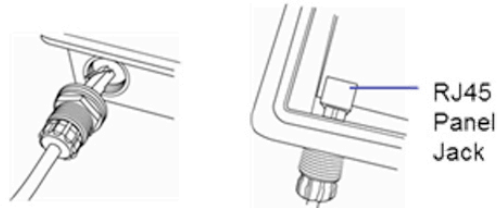
4. Insert the Seal onto the Claw as shown below.



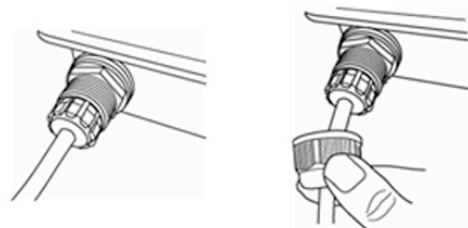
5. Insert the cable into the Cable Gland Main Body as shown below.



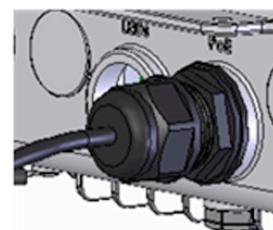
6. Insert the RJ45 plug* onto the RJ45 panel jack as shown below.



7. Secure the Main Body by screwing it onto the panel and secure the Seal Nut onto the Main Body as shown below.



8. Hold the assembly firmly and tighten it by hand. Make sure all steps were followed accordingly.



PoE Power Injector Installation

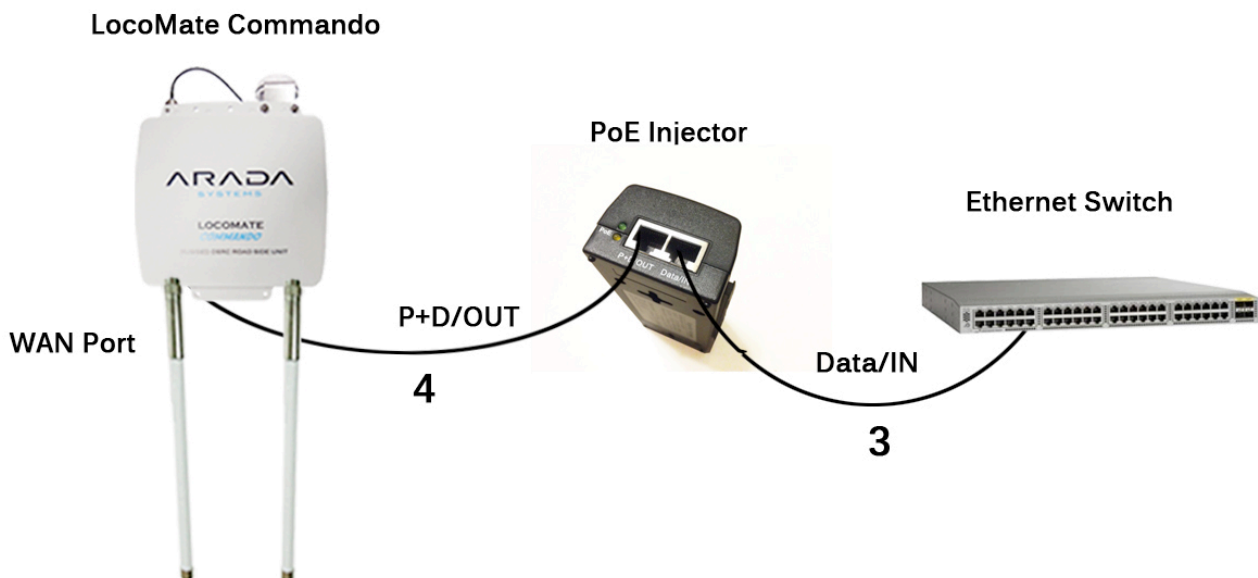
1. Take out the Gigabit PoE Injector and AC power cord from the Commando package.



Gigabit PoE Injector

AC Power Cord

2. Connect the AC power cord to the PoE injector. The Power LED will turn on.
3. Using an Ethernet cable, connect the "Data/IN" port of the power injector to the Ethernet switch.
4. Connect the "P+D/OUT" port of the power injector to the WAN port of the LocoMate Commando.



5. Check and make sure the LocoMate Commando is now turned on.