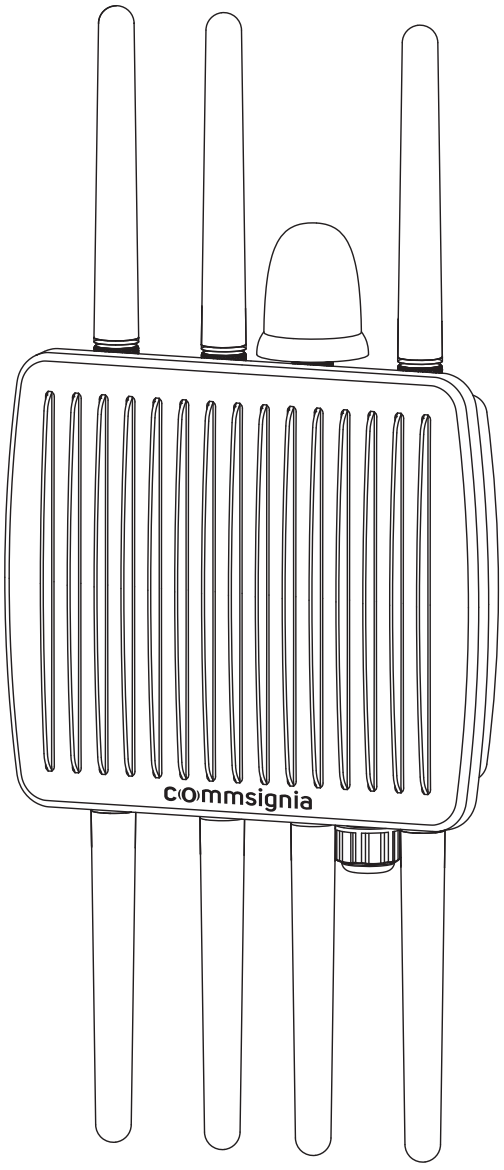
commsignia

ITS-RS4-M

Quick Start Guide

Your guide to setting up the device
and start making transportation safer.

V4.1



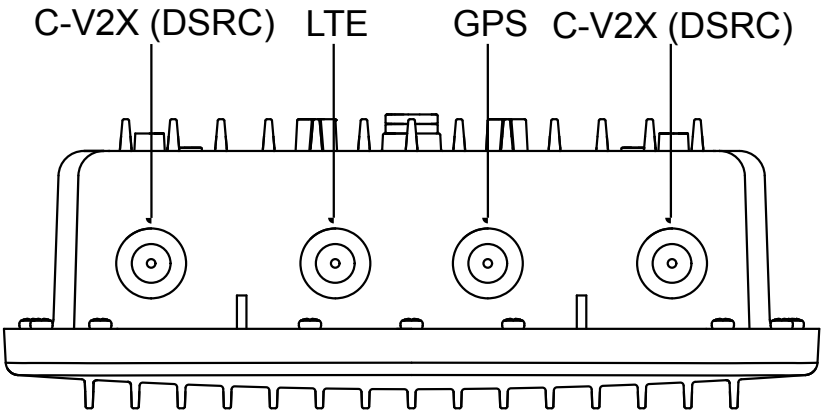
This Quick Start Guide is intended to provide information on the quick assembly and starting of the unit, for example for indoor testing purposes. The procedures described herein are only partial, and thus not sufficient for the proper assembly, installation, and commissioning of the unit. Please refer to the *RSU Mounting and Installation Guide* for the complete description of procedures. It is the sole responsibility of the user to ensure that the device and its application complies with all necessary local, regional, national, and international radio frequency laws.

Package contents

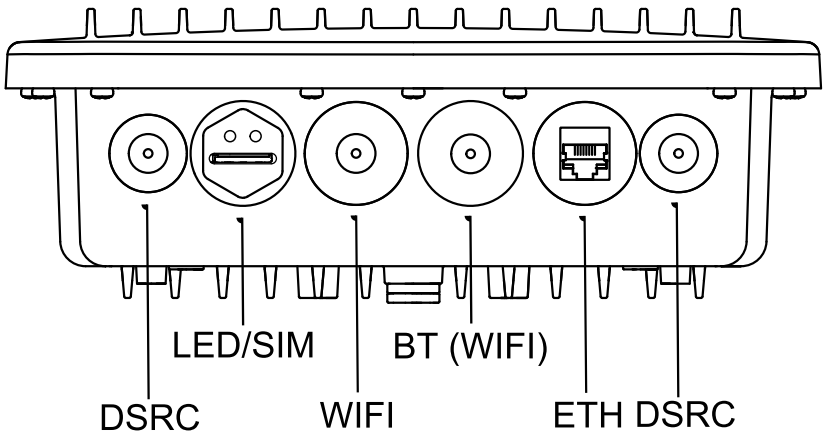
1 × ITS-RS4 unit
4 × DSRC stick antennas
2 × WIFI stick antennas
1 × LTE stick antenna
1 × GPS mushroom antenna
1 × Mounting kit
1 × Ethernet cable
1 × Cable gland

Optional power supply kit:
1 × PoE injector
1 × Power cord
1 × Ethernet cable
1 × Grounding cable

Overview of the ITS-RS4-M unit



Top view



Bottom view

Antenna connections

All antennas need to be connected according to the connection labels shown in the Overview figures on the opposite page. Please note that the C-V2X antennas are labeled as “DSRC” and the Bluetooth antenna (BT) is labeled as “WIFI” as shown in the figure in parenthesis. Screw the antennas in clockwise, holding them at the connector end, using hand force only.
Please make sure that the unit is always held by its enclosure. **Never hold, lift, or adjust the unit by its antennas, as they might bend or break!**

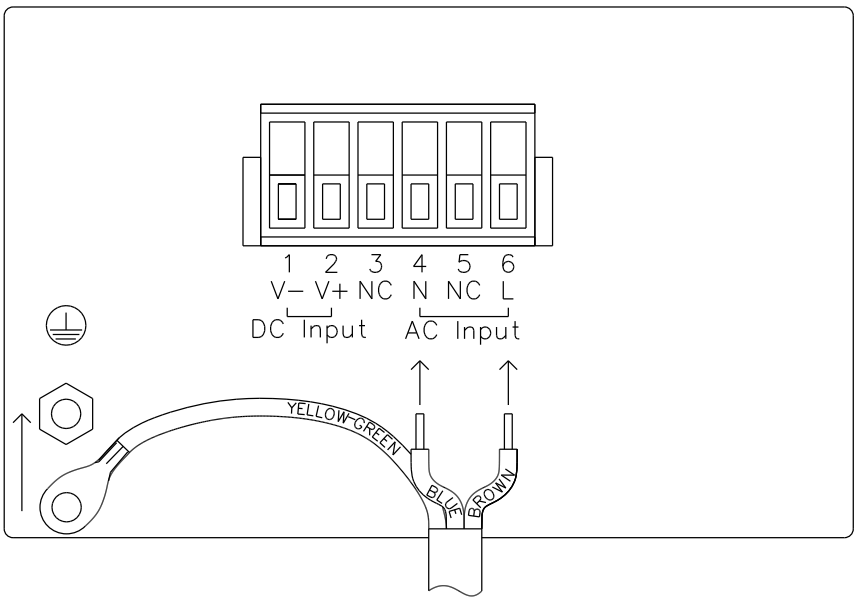
Connecting the Ethernet cable and powering up the device

After all antenna connections have been made, the device can be powered up using the optional Power-over-Ethernet (PoE) injector or any IEEE802.3at-2009 compliant PoE injector through the Ethernet (ETH) connection. To power up the unit, using the optional PoE injector, proceed as follows:

DANGER! Risk of electric shock.

- The procedures described below involves working with dangerous voltages and therefore must be performed by a personnel qualified in electrical installations!
- Do not connect the supplied power cord to the power outlet until all connections have been made!

1. Connect the power chord to the PoE injector according to the figure below as follows:
   a. Cut and peel off approximately 120 mm of the outer jacket of the power cord.
   b. Cut the brown/black (live) and blue/white (neutral) wires to approximately 50 mm long and leave the yellow–green wire as it is.
   c. Strip all wires, crimp sleeves on the live and neutral wires, and crimp a ring connector on the yellow–green wire.
   d. Connect the **brown/black** wire to input port labeled "**L**" (connector 6 at "AC Input") and the **blue/white** cable to input port labeled "**N**" (connector 4 at "AC Input").
   e. Connect the yellow–green wire to the grounding hole marked with ⏚ with the ring terminal.



2. Connect one of the Ethernet cables to the RJ45 socket on the bottom of ITS-RS4-M labeled "ETH" on the overview figure. Connect the other end of the Ethernet cable to the socket on the PoE injector labeled "PoE."

3. Connect the other Ethernet cable to the socket labeled "LAN" on the PoE injector. Connect the other end of this Ethernet cable to the LAN network or computer.
4. Connect the power cord to the power outlet.

DANGER! Risk of electric shock.

- After connecting the power cord, the terminals of the PoE injector became live and can cause electric shock!
- Ensure that the PoE injector cannot be accessed by unauthorised personnel!

It can take 40–60 s for the device to fully start up after the cable is connected, because its main board is powered only after the "SuperCap" backup circuitry is fully charged.

Connecting to the device

The device can be connected either through wired or wireless connections. The wired connection can be established via the Ethernet cable. The device can also be connected via its Wi-Fi access point: The SSID of the unit is **ITS-RS4-XXXXXXX**, where XXXXXXX is the last seven digits of the serial number of the unit, which can be found on the product label, and the default Wi-Fi password is **Commsignia**.

Accessing the device

The device can accessed with IP address **192.168.0.54** for the wired and IP address **192.168.1.54** for the wireless connection.

- Open a web browser and enter the appropriate IP address. Using the username **root** and the password **UK5BJLFZVBPZLIM55Y**, access the graphical user interface (GUI) of the operating system of the unit.
- Alternatively, the unit can be accessed via a command line interface (CLI) using secure shell (SSH) protocol. Open a terminal and enter `ssh root@192.168.0.54` for the wired or `ssh root@192.168.1.54` for the wireless connection, and enter the password **UK5BJLFZVBPZLIM55Y**.

Changing the passwords

It is strongly recommended to **change both the WiFi and the login passwords** after the first login. Detailed descriptions for changing both passwords can be found in the *RSU User Guide*.

Licensing

The device is delivered pre-licensed by Commsignia. No license activation is required.

Recycling of packaging materials

Boxes are made of cardboard, plastic bags are made of low-density polyethylene, and trays and paddings are made of expanded polyethylene. Please recycle all packaging materials.

Product support

Product support is available via e-mail at **support@commsignia.com** or by logging into the support portal at **support.commsignia.com**.