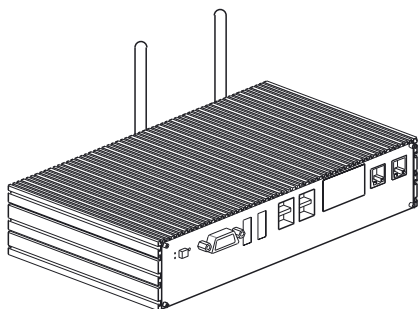## SERVERS

Large Server (Cat. No: 659182)

- Server Unit (x 1)
- Antenna (x 2)
- Mains Power Supply Adapter and Cable - Black (x 1)
- Connectors - Green (x 3)
- Mounting Bracket (x 2)
- Mounting Screws (x 4 pcs)

Power Button LED Indicator

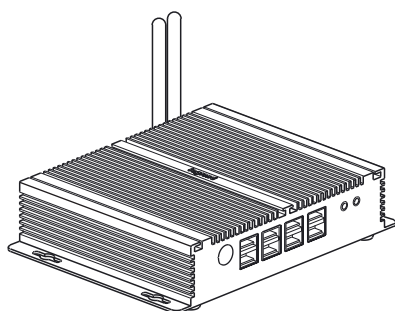- Amber - Standby Power
- Blue - Power ON
- OFF - Power OFF

HDD LED

- Flashing during hard drive activity

PWR LED Indicator

- Green - Power ON
- OFF - Power OFF

4 LAN Ports

Medium Server (Cat. No: 659181) / Small Server (Cat. No: 659180)

Power button LED Indicator

- Blue - Power ON
- OFF - Power OFF

2 LAN Ports (Small Server)

- Server Unit (x 1)
- Antenna (x 2)
- Mains Power Supply Adapter and Cable - Black (x 1)
- Mounting Screws (x 4 pcs)

Ll **legrand**®
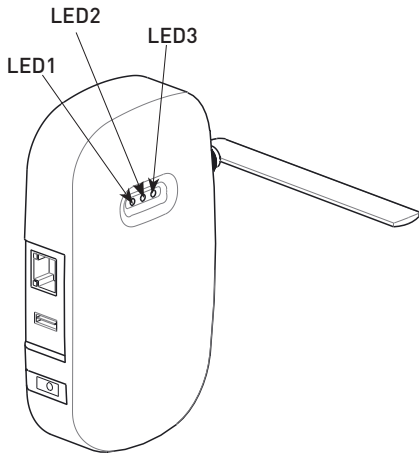
STATIONS

Small Station (Cat. No: 659183)

LED2
LED3
LED1

LED 1 - Power

- Red (Blinking) - During system initialisation
- Green (Blinking) - During system initialisation
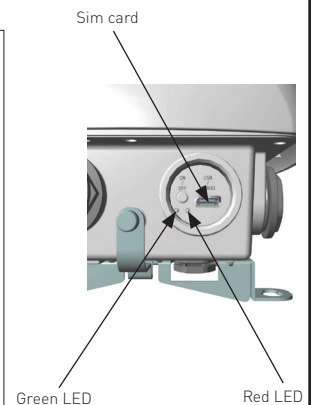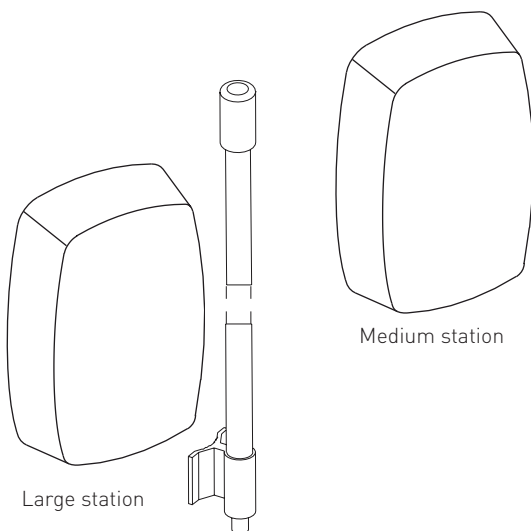- Green - When initialisation is complete

LED 2 - Communication

- Red - During system initialisation / Communication disconnected
- Green (Blinking) - During communication initialisation
- Green - Communication established

LED 3 - Communication traffic

- Red - During initialisation
- Green (Blinking) - Indicated data is being received
- Red (Blinking) - Indicated data is being sent

- Station Unit (x 1)
- Antenna (x 1)
- Mains Power Supply Cable (x 1)
- Wall Mounting Bracket with Screws (x 1)

Large Station (Cat. No: 659185) / Medium Station (Cat. No: 659184)

Sim card

Medium station

Green LED   Red LED

Large station

Station mounting bracket must be installed before the station is mounted onto the wall mounting bracket.
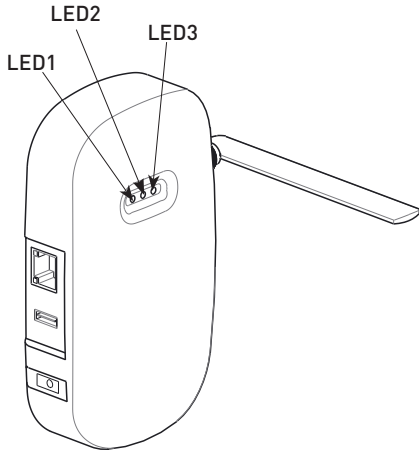
- Station Unit (x 1)
- Earthing Wire and Glands (x 1)
- Large Antenna (x 1 Large Station only)
- Antenna Cable (x 1 Large Station only)
- Antenna Adapter (x 1 Large Station only)
- POE Injector with Power Cable (x 1)
- Wall Mounting Bracket with Screws (x 1)

LED Indications

- Green - Power ON
- Red (Blinking) - During system initialisation
- OFF - When initialisation is complete

Small 4G Station (Cat. No: 659191)

LED 1 - Power

- Red (Blinking) - During system initialisation
- Green (Blinking) - During system initialisation
- Green - When initialisation is complete

LED 2 - Communication

- Red - During system initialisation / Communication disconnected
- Green (Blinking) - During communication initialisation
- Green - Communication established

LED 3 - Communication traffic

- Red - During initialisation
- Green (Blinking) - Indicated data is being received
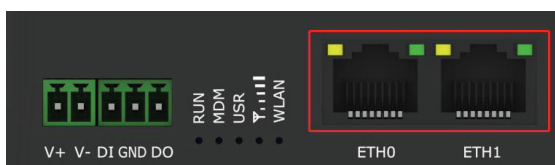- Red (Blinking) - Indicated data is being sent

- Station Unit (x 1)
- Sim Card Slot
- Antenna (x 1)
- Mains Power Supply Cable (x 1)
- Wall Mounting Bracket with Screws (x 1)
- 1 x Robustel R1510 Industrial Cellular VPN Router
- 1 x 2-pin (3.5 mm) Male Terminal Block for Power Supply
- 1 x 3*5 pin (3.5 mm) Male Terminal Block for DIDO
- 2 x 3G/4G SMA-J Cellular Antenna
- Ethernet Cable
- 1x SIM Card Sticker
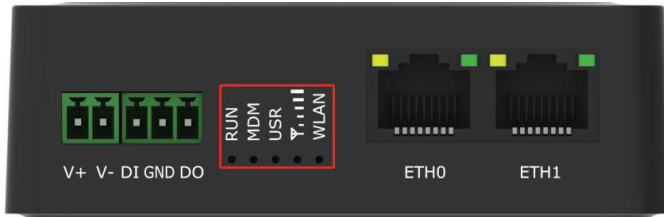- AC/DC 12 V DC Power Adapter
- Wall Mounting Kit

4G Router

Ethernet port indicators

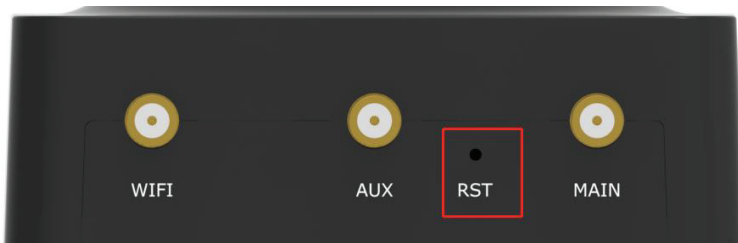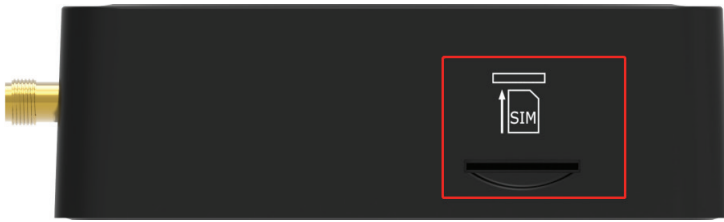| Indicator	Status	Description
Link Indicator (Yellow)	ON -Solid	Connection is established
	ON-Blinking	Data is being transferred
	OFF	Connection is not established

LED Indicators

Name		Colour	Status	Description
RUN		Green	ON - Solid	Router is powered ON (System is initializing)
			ON -Blinking	Router starts operating
			OFF	Router is powered OFF
MDM			ON - Solid	Link connection is working
			ON - Blinking	Data send and received
			OFF	Link connected is not working
USR	USR- Open VPN	Green	ON - Solid	Open VPN connection is established
			OFF	Open VPN connection is not established
	USR-IP Sec	Green	ON - Solid	IP sec connection is established
			OFF	IP sec connection is not established
RSSI (Represented by five bars signal)		Green	ON - Solid	Signal level: Wireless module: 21-31 dB (High Signal strength)
		Green	ON-Blinking	Signal level: Wireless module: 11-20 dB (Medium Signal strength)
		Green	OFF	Signal level: Wireless module: 1-10 dB (Low Signal strength)
Wi-Fi		Green	ON - Solid	Wi-Fi is enabled and working properly
		Green	OFF	Wi-Fi is disabled or not working properly

Note: Click services> Advanced>System>System Settings> Custom LED Light type to set the display type of USR LED.

Reset Button

Function	Operation
Reboot	Press and hold the RST button for 2 to 7 seconds under the operating status.
Restore to factory default settings	Wait for 0-20 secs after powering up the router, press and hold the RST button until all five LEDs start blinking one by one, and release the button to return the router to factory defaults.

Galaxy Installation Manual

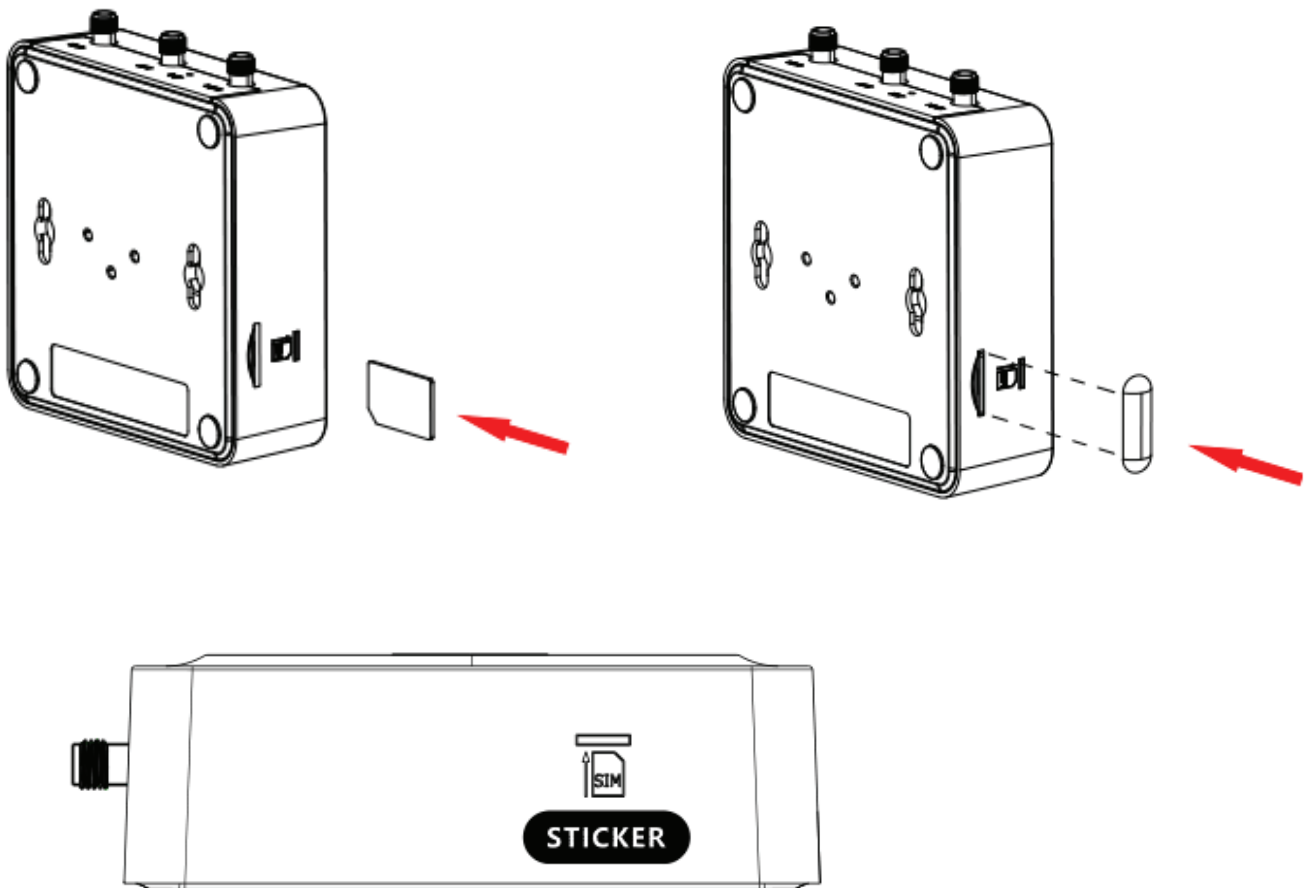Insert or remove the SIM card as shown in the following steps.

■ **Insert SIM card**
1. Make sure the router is powered OFF.
2. To insert a SIM card, press the card with your finger until you hear a click.
3. After the SIM card is inserted, attach the SIM card sticker to the card slot.

■ **Remove SIM card**
1. Make sure the router is powered OFF.
2. Tear the SIM card sticker from the slot.
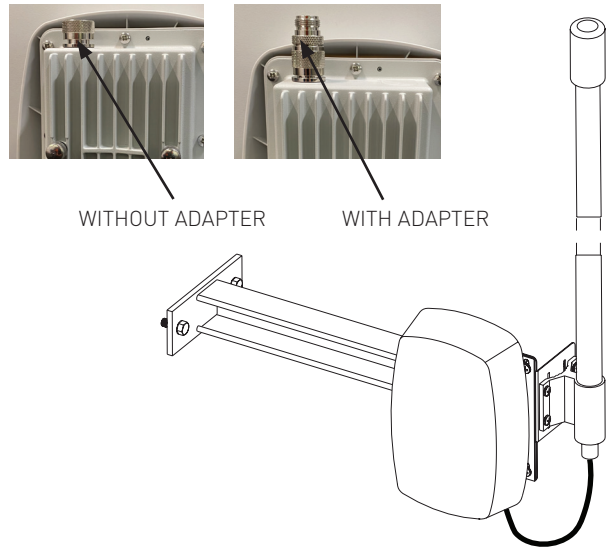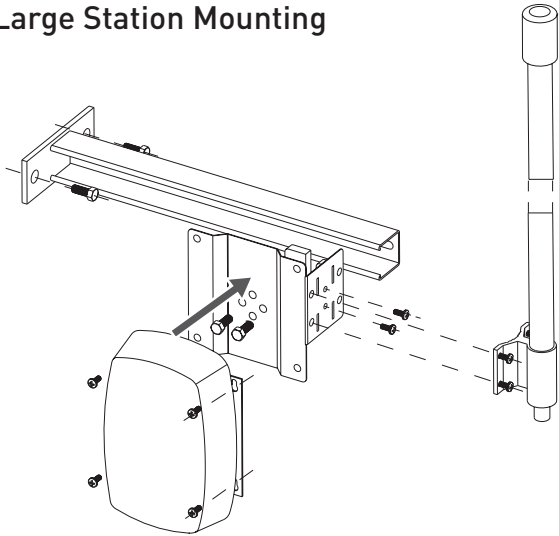3. To remove the SIM card, press the card with a finger until it pops out and then take out the card.

Note:

1. Use the specific M2M SIM card when the device is working in extreme temperature because the regular card working in a harsh environment for a long time will be disconnected frequently.
2. Do not touch the metal of the card surface in case information on the card will be lost or destroyed.
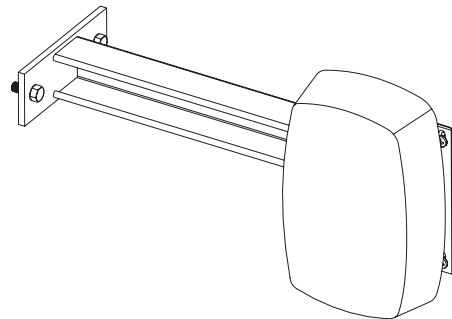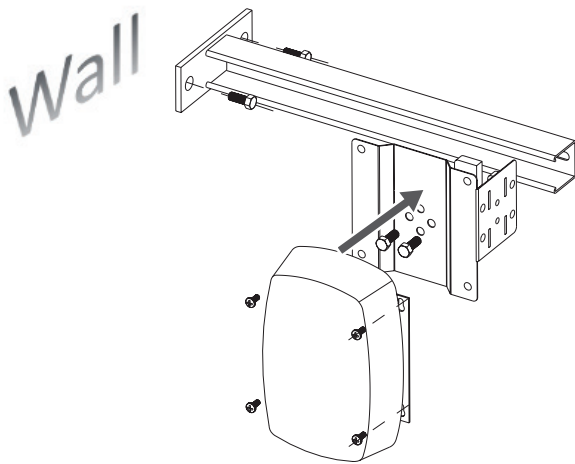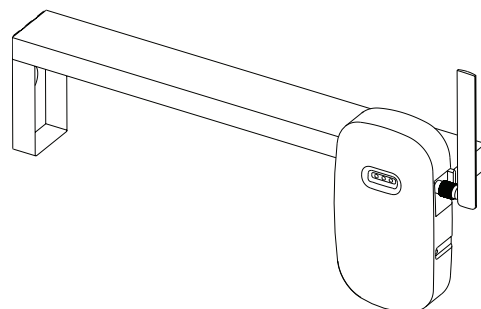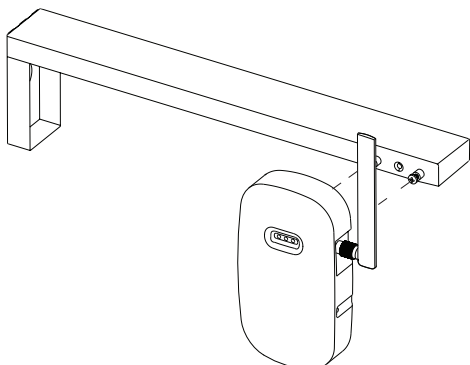
MOUNTING BRACKETS

Large Station Mounting

WITHOUT ADAPTER   WITH ADAPTER

Medium Station Mounting
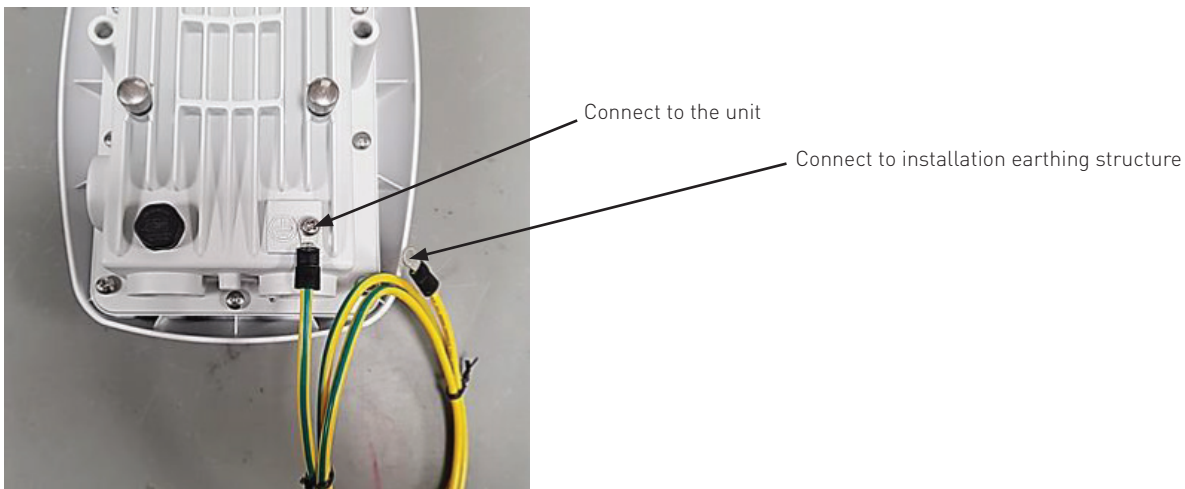
Wall

Small Station Mounting

Things to consider before/after installation

- Isolate 240 V mains supply before maintenance or installation.
- None of the devices should be switched On/OFF after installation.
- Follow the LED indicator functions.
- Make sure the antenna is pointing vertically upwards (Large station only).
- The antenna should be placed away from the walls and surfaces in order to perform effectively (Large station only).
- Please note that mounting bracket must be installed to achieve optimum performance.
- Secure the stations onto the mounting bracket onto the desired wall or structure before connecting.
- Ensure you have 4G coverage.

Earthing Galaxy Stations and Accessories

Earthing the Medium and Large Stations

The station is provided with a green/yellow cable for earthing. A pre-existing screw hole is available on the metal enclosure of the station, marked with an earth symbol (as shown).

Connect to the unit
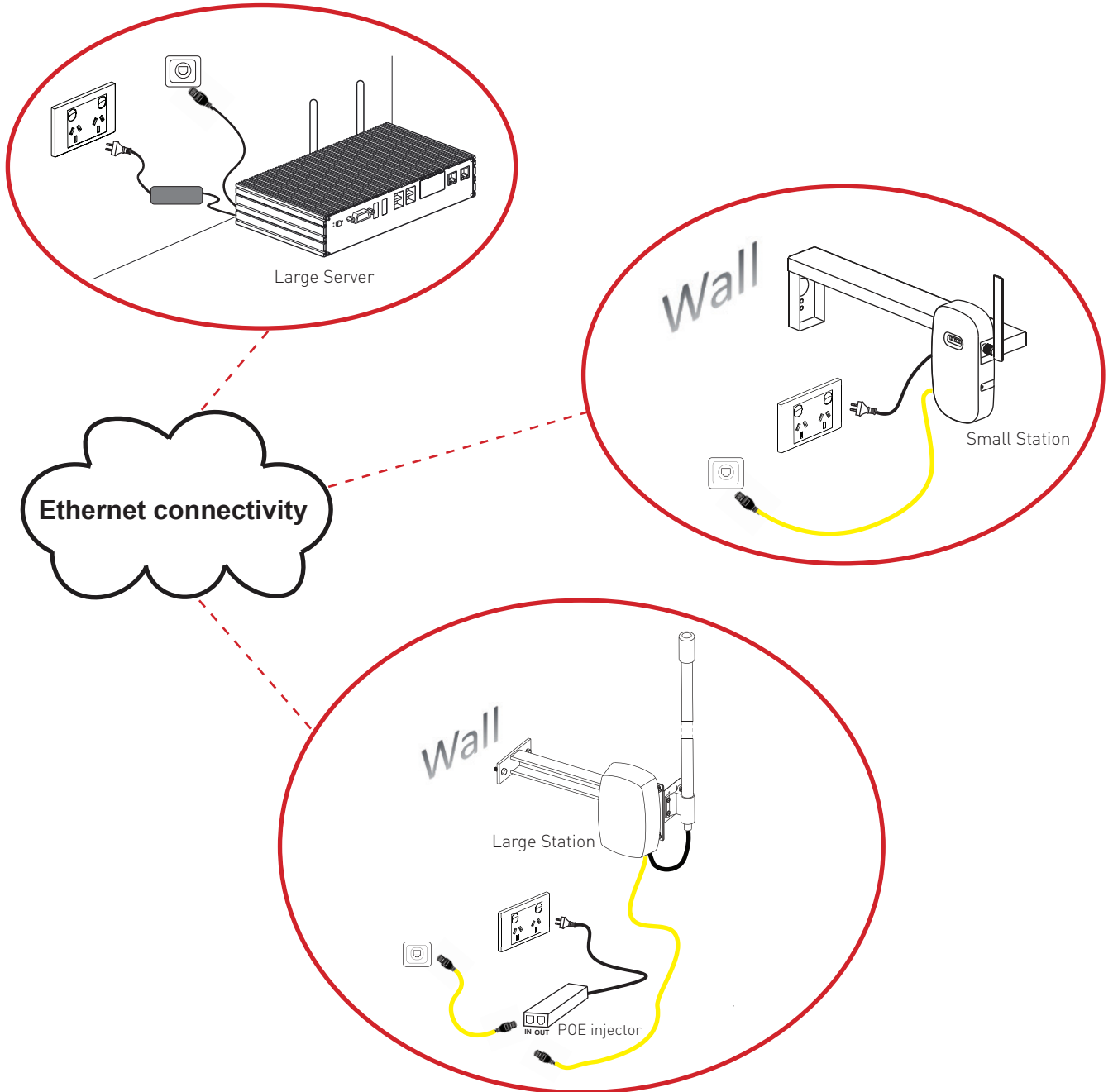
Connect to installation earthing structure

Earthing the Station Mounting Bracket

It is strongly recommended to earth the station mounting bracket to prevent surges that may damage the station.

Earthing can be completed by:

- **Pole Mounting:** By using the metallic strapping.
- **Wall Mounting:** By using M4 screws (provided). The earthing connection is done through a ring terminal. A specific crimping tool is required to perform the operation. The earthing cable must be crimped inside this ring terminal.

Li legrand®

Ethernet Connection

Large Server

Wall

Small Station

Ethernet connectivity

Wall

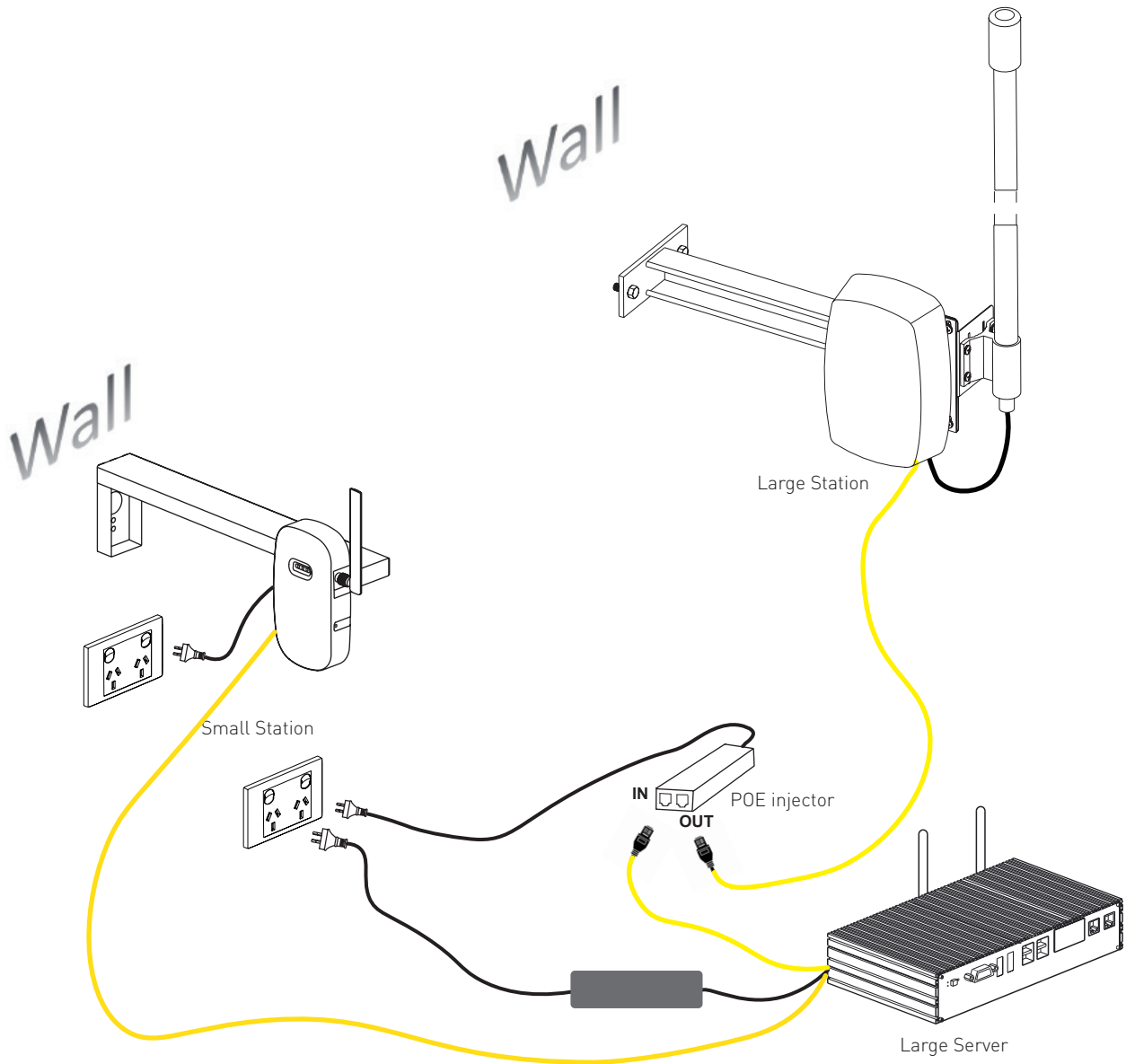Large Station

IN OUT POE injector

Note: Maximum distance between POE injector and the station should be < 100 m.

1. Plug the power cord of all units into the power outlet (Do not turn **ON**).
2. Connect the Server, POE and Station to an available ethernet socket outlet. Ensure that the Server and Stations are on the same subnet (local IT may need to assist).
3. Turn **ON** the power at the outlet and the Server will automatically turn **ON**.

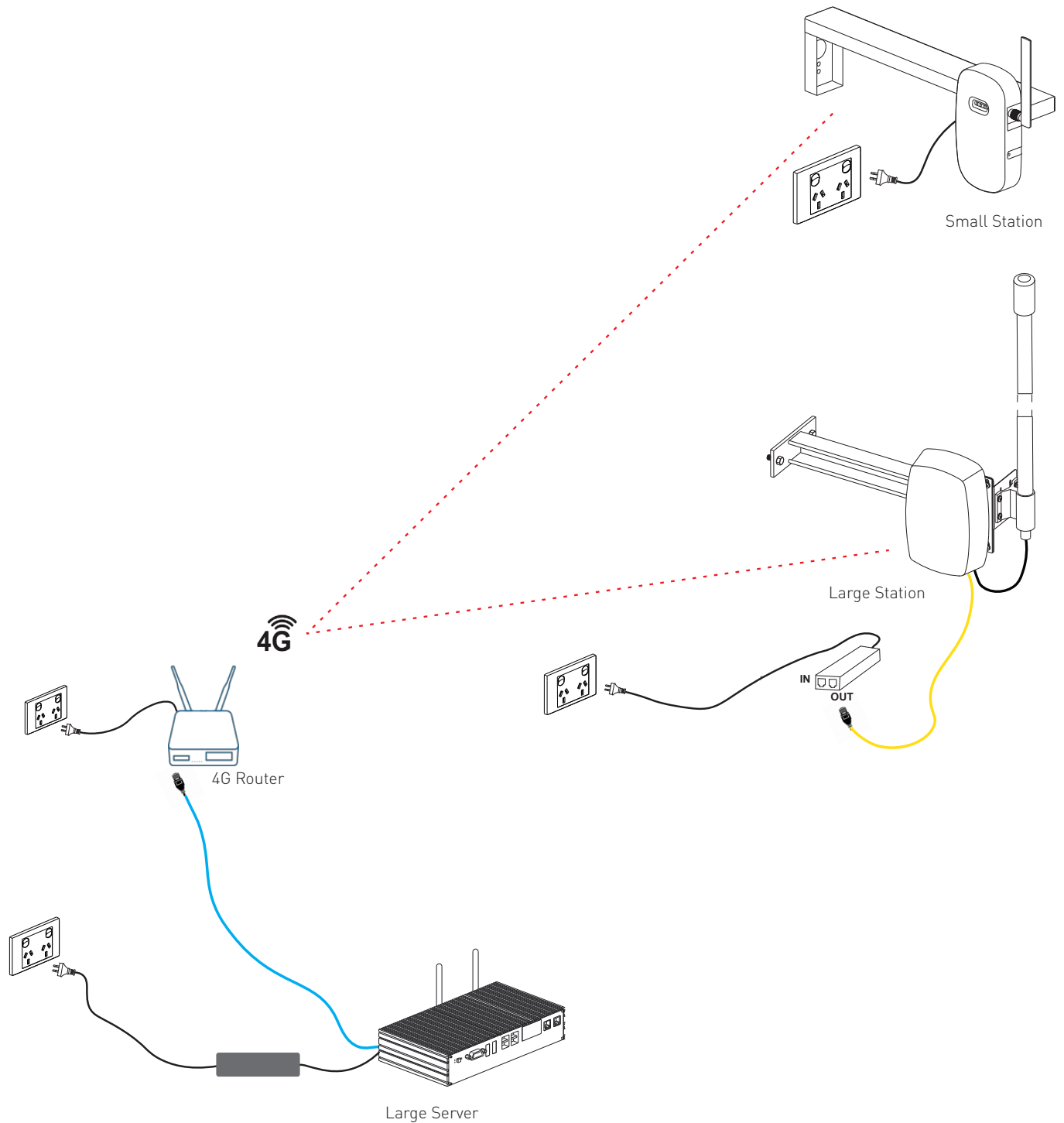**Note:** Contact Legrand prior to installation and for commissioning.

Galaxy Installation Manual

Direct Connection

Wall

Wall

Large Station

Small Station

IN

OUT

POE injector

Large Server

1. Plug the power cord of all units into the power outlet (Do not turn **ON**).
2. Make a direct connection from the Server to the Station using the Legrand yellow Cat 6 cable (Cat. No. 659187).

   Stations are wired back as a star formation to the Server if there is more than one Station on site. A galaxy LAN extender accessory (Cat. No: 659187) must be used if the distance between the Server and Station exceeds 100 m.
3. Turn **ON** the power at the outlet and the Server will automatically turn **ON**.

Note: Contact Legrand prior to installation and for commissioning.

Galaxy Installation Manual

4G Connection

Small Station

Large Station

4G

4G Router

IN
OUT

Large Server

Note: We can have combination of both wireless and wired connection in one connection. Contact Legrand prior to installation and for commissioning.

GALAXY ACCESSORIES
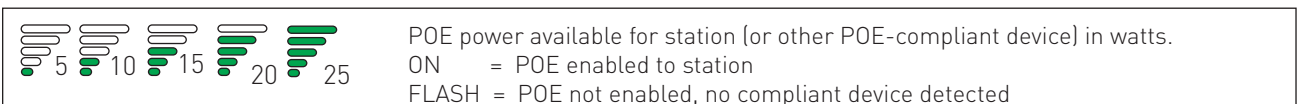
Ethernet extender kit (Cat. No: 659188)

Application diagram

LED indication

ON: Power good	**ON:** Link **FLASH:** Activity

The green LED may blink quickly while connecting (for extremely long runs, it may take a few seconds to optimise the link).

POE Status (Green)

In normal operation, the LEDs will display the power available in flashing or steady green:

POE power available for station (or other POE-compliant device) in watts.
ON   = POE enabled to station
FLASH = POE not enabled, no compliant device detected

The power level is displayed after the station-side unit has powered up. Available power depends on the cable length, cable gauge,and the POE source used.

08/2022

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