



Plug in 4G APP/Dashboard/Monitoring module for EC or EC-i
EC or EC-i must be 'V10.3.45' & above to support EC-i 4G

Specifications

Support	EliteCloud APP, Dashboard & IP Monitoring
Power	Supplied from 'EC' or 'EC-i' EXP A Port
Current Draw	50mA max
Compatibility	EC or EC-i (V10.3.45 or above)
Antenna	Included (also includes 200mm 'chassis mount' extension)
Frequency Bands	LTE-FDD-B1/3/7/8/20/28 GSM-B3/8
Dual SIM	Yes
Reporting Path	Primary cellular or backup
IP Reporting	CSV, Patriot & DC09
Dimensions	74 x 39 x 55mm max
SIM Card	Not Included
AAP SIM Plan	Coming soon

Features (Primary or Backup Cellular)

The 'EC-i 4G' creates a cellular connection for the 'EC' or 'EC-i' control panel. This allows access to the 'EliteCloud APP', 'Dashboard' & 'IP Monitoring' without the need for an Ethernet connection.



This provides a 'Primary Cellular Connection' (no Ethernet required) or a 'Cellular Backup Connection' (along with Ethernet) for APP, dashboard or monitoring purposes.



Hardware Checklist

1. Insert activated 'nano sim' into '**Sim1**' &/or '**Sim2**' port
2. The 'EC' or 'EC-i' control panel **must be powered OFF** before plugging in the 'EC-i 4G' module.
3. The 'EC-i 4G' plugs directly onto the 'EC' or 'EC-i' 'EXP A' port as shown in figure 1.
4. Secure EC-i 4G module with supplied stand-off x 3
5. Ensure the supplied antenna is securely screwed directly onto the gold SMA connector as shown in figure 1.
6. The 'chassis mount antenna extension' provided should be utilised to mount the antenna outside of metal enclosures as shown in figure 2.
7. Power up the EC-i control panel. The 'EC-i 4G' takes 30 - 60 seconds to power ON & initiate connection, however this process can take up to 5 minutes.

Figure 1

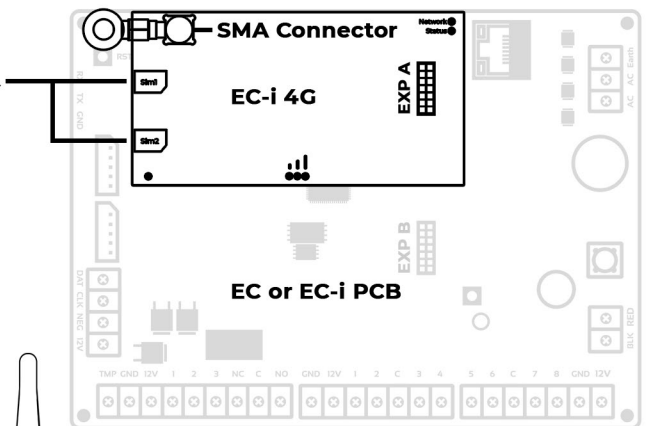
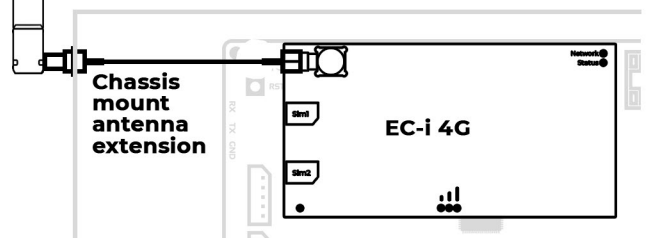


Figure 2



Firmware Checklist

1. The 'EC' or 'EC-i' MUST be firmware version 10.3.45 or above to communicate with the 'EC-i 4G'.
2. All keypad bus peripherals must also be updated to support the 'EC-i 4G' diagnostic options.
3. Bus updates are initiated at address P200E7E or from the cloud dashboard.



Cloud, Browser & Keypad Diagnostics

Reporting path, signal strength & 'EC-i 4G' modem reset can be accessed via the 'EC' or 'EC-i' built in web browser or EliteCloud dashboard within the 'System' tab.

Alternatively the 'EC-LCD' keypad can report this information as detailed below:

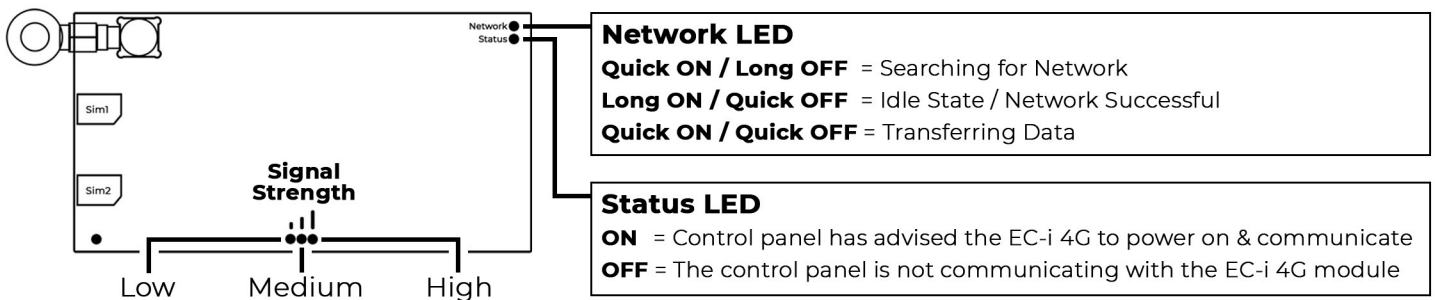
- EC-i Reporting Path** - Press & hold number 6 ('ETH' or '4G' will be displayed. Press ENTER to exit)
- Signal Strength** - Installer programming - P200E18E
- EC-i 4G Modem Reset** - Installer Programming - P200E20E

This information can also be accessed within the 'EC-TOUCH' 'Service' tab (coming soon)



LED Indicator Diagnostics

The 'Status', 'Network' & 'Signal' LEDs found on board the 'EC-i 4G' hardware can be used to identify the module status as detailed below:



Estimated Data Usage

- The EC-i 4G data usage will vary dramatically depending on how regularly the device is communicating with the EliteCloud server &/or central monitoring station.
- The examples below are estimates only and are likely to vary from site to site:



Monitoring (Calculated based on polling only with cloud connection OFF)

- 1 minute polling = 20Mb/month
- 4 hourly polling = 80Kb/month



EliteCloud APP (No central monitoring)

- APP usage estimated at 2 - 3 times per day = 7 - 10Mb/month



EliteCloud Installer Dashboard

- There is no data available for this due to the wide variation of use cases for this service.

Cloud Connection Options

If the EC-i 4G is to be used for monitoring purposes only (no APP or dashboard) then it is recommended to turn off the EC-i cloud connection to save data. This is performed at address P201E4E Turn option 5 ON E (option 5 on = Cloud connection disabled).