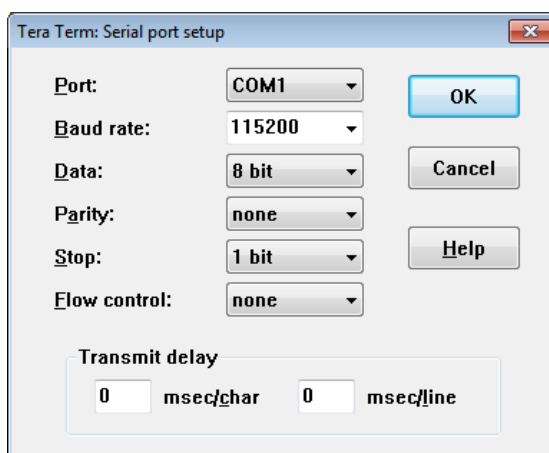


AT240 Quick Start Guide

1. An ASCII terminal is useful for initial testing and configuration. If you already have one, skip to step 2, otherwise :

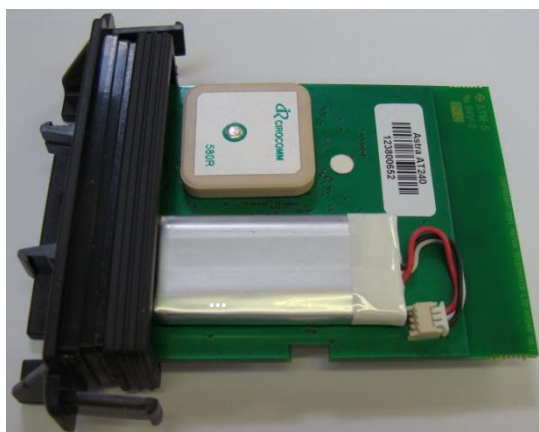
- a. We recommend Tera Term, which can be downloaded free of charge from: <http://logmett.com/index.php?/download/tera-term-467.html>
- b. Once downloaded, install Tera Term and start up a session
- c. Select *Setup* and then choose *Serial Port* from the drop down options
- d. Configure your serial connection as follows:



- e. Choose the *Port* to suit your available COM ports on your PC. This will usually be COM1 if you have a built in RS232 port. If using a USB-RS232 adapter, go to the Windows® Device Manager and check which COM port has been assigned to your USB adapter (note: the assigned COM port will change if you plug into a different USB socket on your PC).
- f. Select *Setup* and then *Save Setup* from the drop down menu list to save this configuration
- g. Leave the Tera Term window open whilst you now set up and connect the AT240

2. Check that the battery is fitted and connected:

- a. Each AT240 is supplied with a 450mAh back-up battery, which should be fixed to the PCB and connected as shown below:
- b. Do not attempt to remove the battery from the cover, once it has been stuck down, as prising or bending could lead to explosion/fire and smoke.



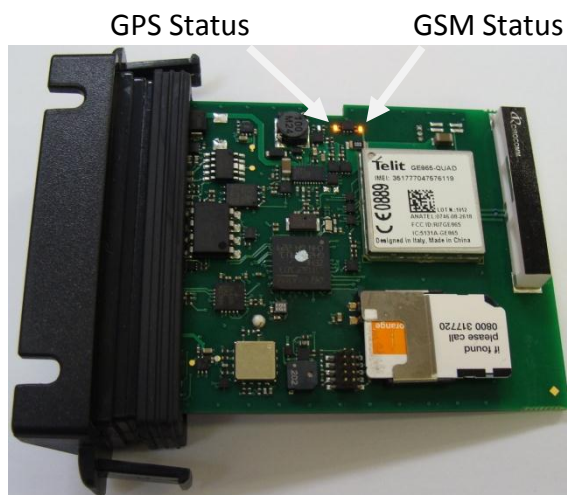
3. Slide the SIM into its holder:

- a. Note that the AT240 will now power up



4. Check status LEDs

- a. Place the AT240 somewhere with reasonable view of the sky in correct orientation (PCB side with GPS patch antenna & battery facing to the sky) for a minute or two and then check the status LEDs as below:



- a. During normal operation the LEDs should:
 - a. GPS double flash once per second
 - b. GSM single flash every 3 seconds

5. Fit the enclosure cover

- a. Align the AT240 PCB with the slots in the main part of the enclosure and slide in the PCB and end panel assembly until the clips are mated



6. Fit the CB241 cable to the AT240 system connector

- a. The CB241 cable has a DB9 female RS232 connector and 4 way Molex Microfit connector for power and ignition.
- b. Connect the DB9 serial connector to your PC COM port or USB-RS232 adapter
- c. If you have fitted a battery you should now see text scrolling continuously from the AT240 to Tera Term
- d. Connect the power as outlined below

	+VE Power	-VE Power	IGNITION
CB241 cable (samtec IP68 cable)	black	red	green
CB001 cable (3 way power & ign)	red	black	white
Molex Microfit connector	pin 1	pin 2	pin 3

- e. Connect the IGNITION wire to an ignition switched 12/24V signal (i.e. something that only goes live when the vehicle ignition is ON). This is not necessary when using IGNM=3, in this mode engine running is detected from external voltage

7. Configure Settings

- a. Once the device is running and you can see output text scrolling in Tera Term, you are ready to configure the device by typing or pasting commands into the Tera Term window (note: these commands can be send by SMS also).
- b. Configure GSM/GPRS network operator APN settings to suit your SIM using the following commands:

```
$APAD,<apn_address>  
$APUN,<apn_username>  
$APPW,<apn_password>
```

if you dont know the appropriate APN settings for the network operator you are using, you can look them up from: <http://www.taniwha.org.uk/gprs.html>

- c. Configure your server IP Address (or hostname) and port. This is the destination that the AT240 will deliver data reports via TCP or UDP socket connections. The commands are:

```
$IPAD,<ip_address_or_hostname>  
$PORT,<port_number>
```

NOTE: IP address should be entered **WITHOUT LEADING ZEROS**

- d. Select the required reporting protocol (i.e. packet format) using the following command:

\$PROT,<protocol>

<prot>	Reporting protocol	
0	Fixed packet protocol "A"	Legacy - not for new implementations
1	Fixed packet protocol "C"	Legacy - not for new implementations
2	Fixed packet protocol "G" Basic	Legacy - not for new implementations
3	Fixed packet protocol "G" Extra	Legacy - not for new implementations
4	Fixed packet protocol "H"	Legacy - not for new implementations
5	Fixed packet protocol "F"	Legacy - not for new implementations
6	Fixed packet protocol "K"	Legacy - not for new implementations
7	Fixed packet protocol "L"	Legacy - not for new implementations
8	Fixed packet protocol "M"	RECOMMENDED (AT240 w/o CANBus)
9	Fixed packet protocol "N"	Legacy - not for new implementations
10	Fixed packet protocol "P"	Carrier Transicold Refrigerator data
11	Fixed packet protocol "R"	Legacy - not for new implementations
12	Fixed packet protocol "S"	As "M" but with Enhanced ADC resolution
13	Fixed packet protocol "T"	As "M" but with ECON glitter status data
14	Fixed packet protocol "V"	RECOMMENDED (AT240 FMS or OBD)

please contact Astra Telematics for advice and documentation on the above protocols

- e. Your AT240 is now configured will all the basic essentials for operation. The text output in Tera Term will show details of any errors.
- f. Please refer to the AT240 User Guide and various application notes for further details of features and configuration options.