astra telematics

AT202 Quick Start Guide

1. Install an ASCII Terminal Application (on your PC)

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

a. We recommend TeraTerm, which can be downloaded from our server, here:

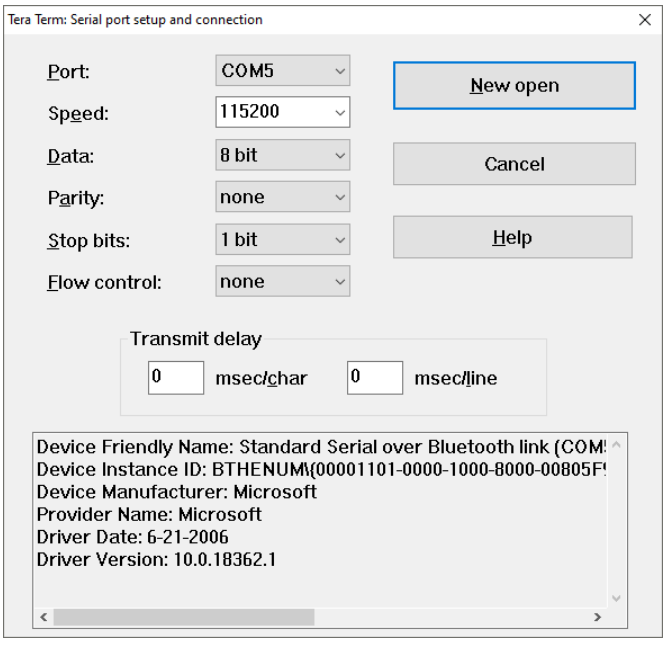
https://astratelematics-my.sharepoint.com/:f:/p/phil/EiffxOSnjX1DiimDbvB5EHkBdk_nkauL34TKMLzLp4v4Sg?e=d3Iilo

b. Once downloaded, install TeraTerm and open the application

c. Select RS232 session type

d. Select *Setup* and then choose *Serial Port* from the drop-down options

e. Configure your serial connection as follows:



f. 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).

g. Select *Setup* and then *Save Setup* from the drop-down menu list to save this configuration

h. Leave the TeraTerm window open whilst you now set up and connect the AT202

2. Hook-up the Cables for RS232 and Power Source

The following guide is based on the cables and accessories supplied in the EK202 Evaluation Kit.

a. Fit the CB203 or CB201 cable to the AT202 system connector

b. Connect the CB004 RS232 adapter to the matching 3-way connector on the CB203/CB201 cable.

c. Connect the CB004 DB9 serial connector to your PC COM port or USB-RS232 adapter

d. Connect the CB001 power / ignition cable to the matching 4-way connector on the CB201 cable. (note: CB203 is not terminated for the CB001)

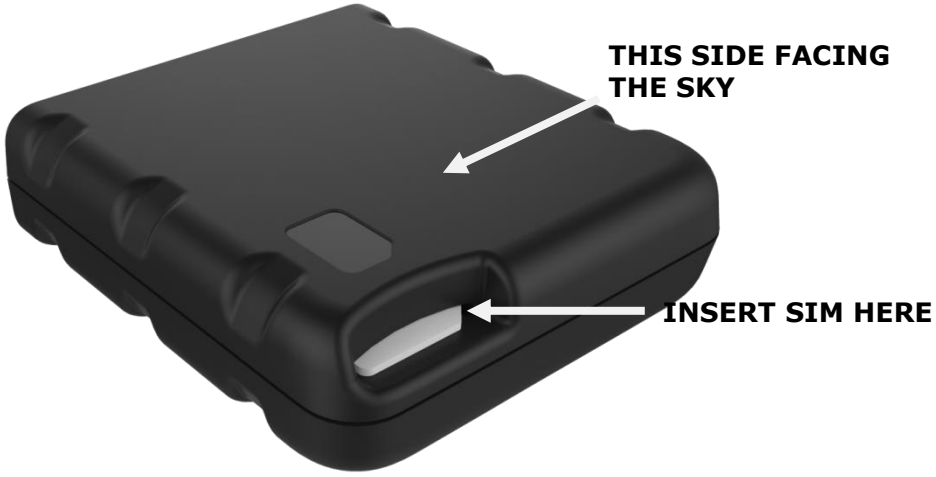
e. Connect the 12V power source, either directly to the CB203 cable or using CB001:

	+VE Power	**GND**	**IGNITION**
CB203 cable	red	black	white
CB001 cable (3-way power & ignition)	red	black	white

f. Connect the IGNITION wire to an ignition switched 12/24V signal (i.e. something that only goes live when the vehicle ignition is ON)

3. Power-up the AT202 Device

a. Slide the SIM (Mini 2FF format) into the slot, noting orientation as below:



Note that the AT202 will now power up

b. You should now see text scrolling continuously from the AT202 to TeraTerm

4. Check status LEDs

a. Place the AT202 somewhere with reasonable view of the sky in correct orientation for a minute or two and then check the status LEDs as below:

GNSS (GREEN):	Constant ON	Searching for initial fix
	Double flash every sec	GNSS 3D navigation
	Flash @ rate 1 per 5 sec	Lost GPS navigation
GSM (BLUE):	200mS ON / 1800mS OFF	GSM ON
	1800mS ON / 200mS OFF	GSM registered on network
	Constant OFF	GSM Modem OFF

5. Configure the AT202 to Communicate with your Platform

a. Once the device is running and you can see output text scrolling in TeraTerm, you are ready to configure the device by typing or pasting commands into the TeraTerm window (note: these commands can be sent by SMS also).

b. Configure the AT202 mobile network operator APN settings to match your SIM, using the commands:

$APAD,<apn-address>
$APUN,<apn-username>
$APPW,<apn-password>

example:

$APAD,internet
$APUN,web
$APPW,web

Note: if using an ASTRA SIM card, the device APN will be configured by default:

$APAD,astra

If you don't 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 platform IP Address (or hostname) and port. This is the destination that the AT202 will deliver data reports via TCP socket connections. The commands are:

$IPAD,<ip-address-or-hostname>
$PORT,<port-number>

d. Select the required protocol X modules using the following command:

$PROT,16,<mask> protocol 'X' (define <mask> to select required modules)

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

d. Your AT202 is now configured will all the basic essentials for operation. The text output in TeraTerm will show details of any errors.

e. Use the $TEST command (send through TeraTerm or by SMS) to confirm correct device operational status. The reply is user-readable and self-explanatory, but you can find an application note with details on our website downloads page.

f. Please refer to the AT202 User Guide, AT202 Installation Guide and the Astra Telematics Generic Command Reference for further details of features and configuration options.