astra telematics

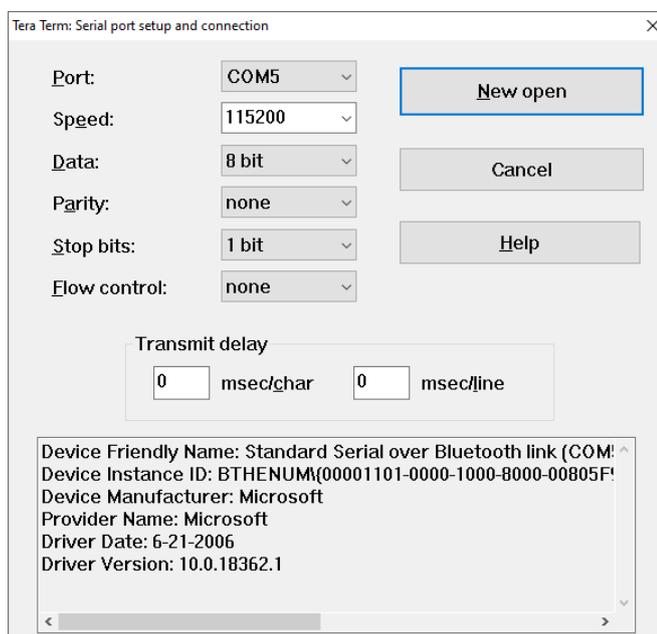# AT201 Quick Start Guide

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

   a. We recommend TeraTerm, which can be downloaded free 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 AT200

## 2. Fit the CB203 or CB201 cable to the AT201 system connector



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



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

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



d. 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 & ign) | red | black | white |

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

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

   a.  Note that the AT201 will now power up

   **b.** You should now see text scrolling continuously from the AT201 to TeraTerm



THIS SIDE FACING THE SKY

INSERT SIM HERE

**4. Check status LEDs**

   a.  Place the AT200 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 Settings**

   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 GSM/GPRS network operator APN settings to suit your SIM using the following commands:

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

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

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 AT200 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 one of the following commands:

$PROT,6                        protocol 'K'

$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 AT200 is now configured will all the basic essentials for operation.  The text output in TeraTerm will show details of any errors.

e. Alternatively, 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 AT201 User Guide and various application notes for further details of features and configuration options.