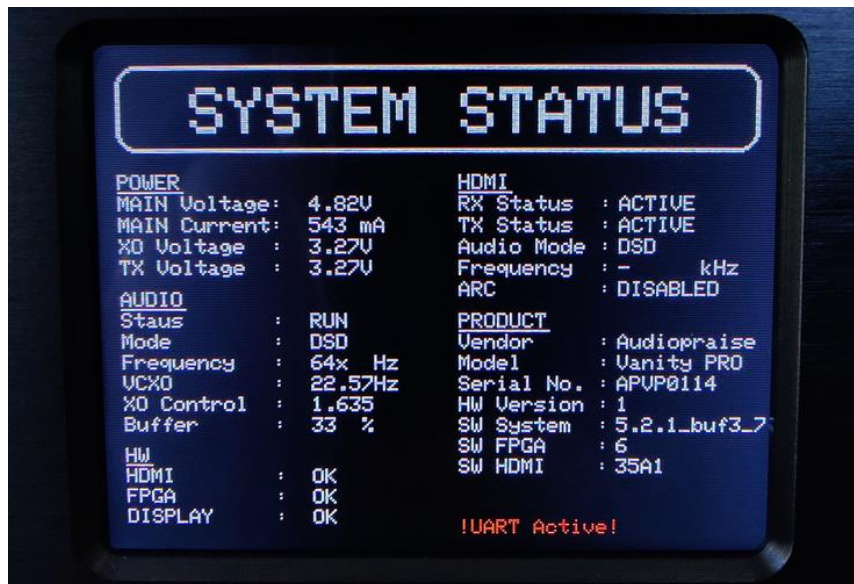


Logging Diagnostic Output from Vanity^{PRO}

The diagnostic output will only function with special FW versions, clearly marked with “UART” suffix. The presence of diagnostic output is also shown in the Status screen of the unit.



The diagnostic data stream is sent from the VanityPRO via USB connection, which acts as a virtual COM port.

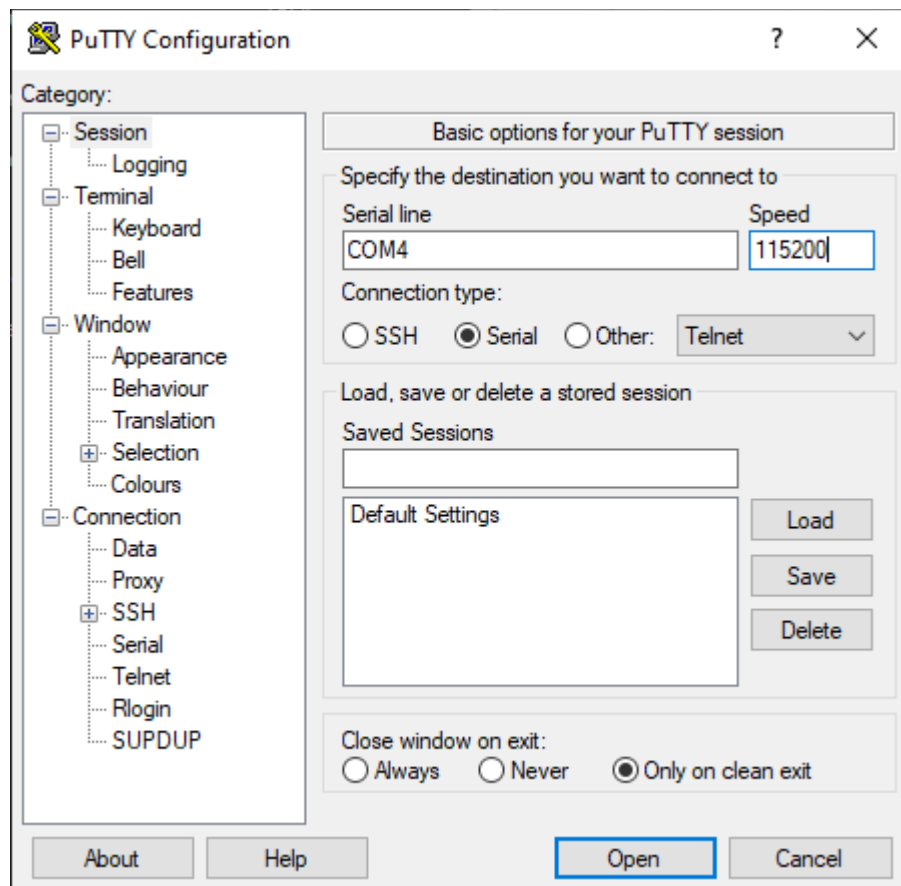
It is important, that the USB is connected only after the VanityPRO has been turned on and the home screen is shown on the display.



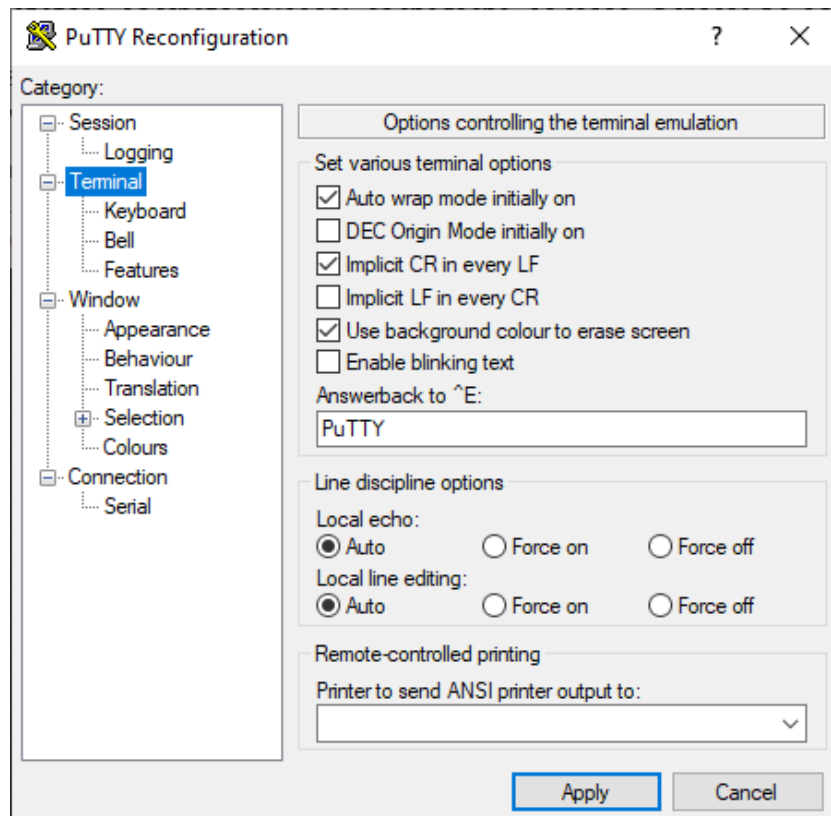
Virtually any serial client/terminal can be used to connect to the USB serial port and establish logging of the stream. A popular client PuTTY will be shown here with its configuration. It can be downloaded from the Microsoft app store.

<https://apps.microsoft.com/detail/XPFNZKSKLBP7RJ?hl=en-US&gl=US>

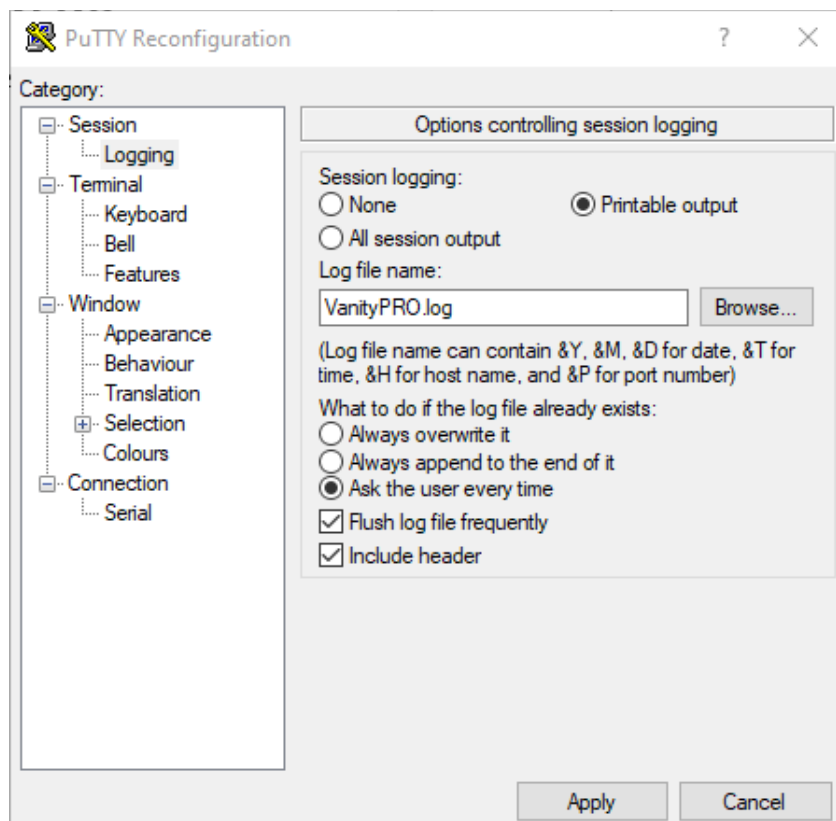
In the initial screen the connection needs to be defined as **serial** and the correct port number needs to be specified. The COM port number can be found in the device manager. In the example below, the port is COM4 and the communication speed is **115200** bps.



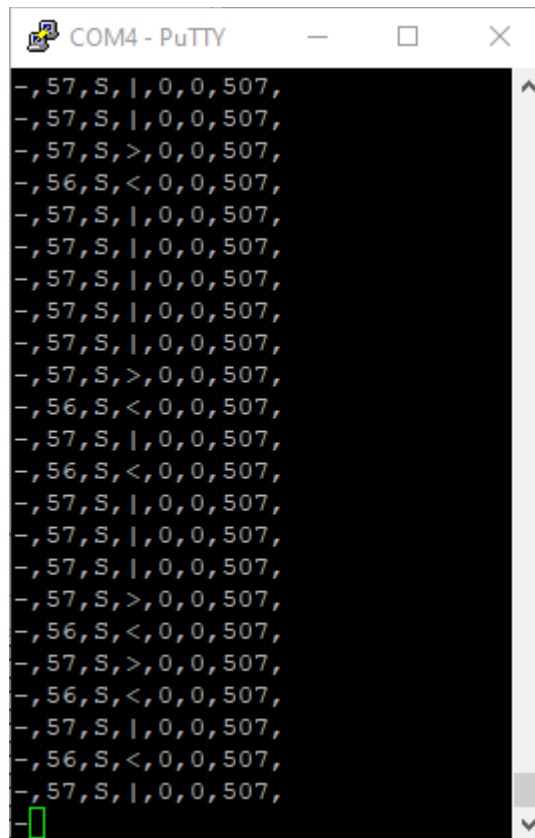
It is useful to change some text formatting settings, specifically **Implicit CR in every LF**, so every transaction is shown on a new line.



The last thing to setup is the logging output into a file. It is just a plain text file in printable format.



When the session is started, the terminal window shows the diagnostic data stream and if logging is enabled the stream should be directed into a text file. The logging should be left running for the necessary amount of time to cover all events for which the diagnostic logging is used.



The image shows a screenshot of a PuTTY terminal window titled "COM4 - PuTTY". The window contains a diagnostic data stream consisting of multiple lines of text. Each line follows a similar pattern: a hyphen, a number (57 or 56), a comma, the letter 'S', a comma, a vertical bar, a number (0), a comma, another number (0), a comma, and the number 507. The lines are separated by commas. The stream includes various symbols like '>' and '<'. At the bottom of the terminal, there is a green cursor. The window has standard Windows window controls (minimize, maximize, close) in the title bar.

```
- , 57, S, |, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, >, 0, 0, 507,  
- , 56, S, <, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, >, 0, 0, 507,  
- , 56, S, <, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 56, S, <, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 57, S, >, 0, 0, 507,  
- , 56, S, <, 0, 0, 507,  
- , 57, S, >, 0, 0, 507,  
- , 56, S, <, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- , 56, S, <, 0, 0, 507,  
- , 57, S, |, 0, 0, 507,  
- ,  
-
```