



## Accessing Diagnostics

Applies to:

Omega JR, Plcon II, RS485 Smart D-Box, Hybrid Multi-Pump, Mechanical Relay/EMR3, & RLM4

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Revision Date: July 2021

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## Connection to Diagnostics

### USB cables

- Connect from the PC to the DIAG port of the device using a USB cable
  - USB A to B cable is required for Omega JR, Plcon II, and RLM4
  - Micro USB cable is required for RS485 Smart D-Box, Hybrid Multi-Pump, and Mechanical Relay/EMR3
- Power on the device

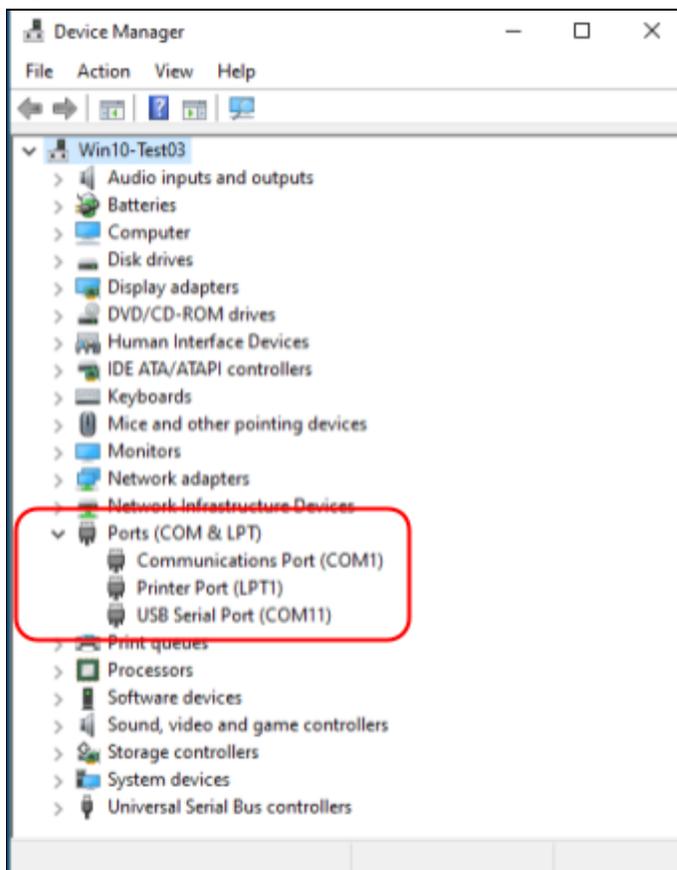
## Download and Install [ExtraPuTTY](#)

### Download [FTDI drivers](#)

- Double-click on the .zip file to extract and install the drivers

### Device Manager

- Open Device Manager on your PC (right click on Start Menu of Windows 10)
- Expand the Ports section



- There should be a *USB Serial Port (COMxx)* where xx is the port number that was given by Windows. This com port will be used in ExtraPuTTY.

## ExtraPuTTY (or PuTTY)

- Open ExtraPuTTY from the Programs list of the Start Menu

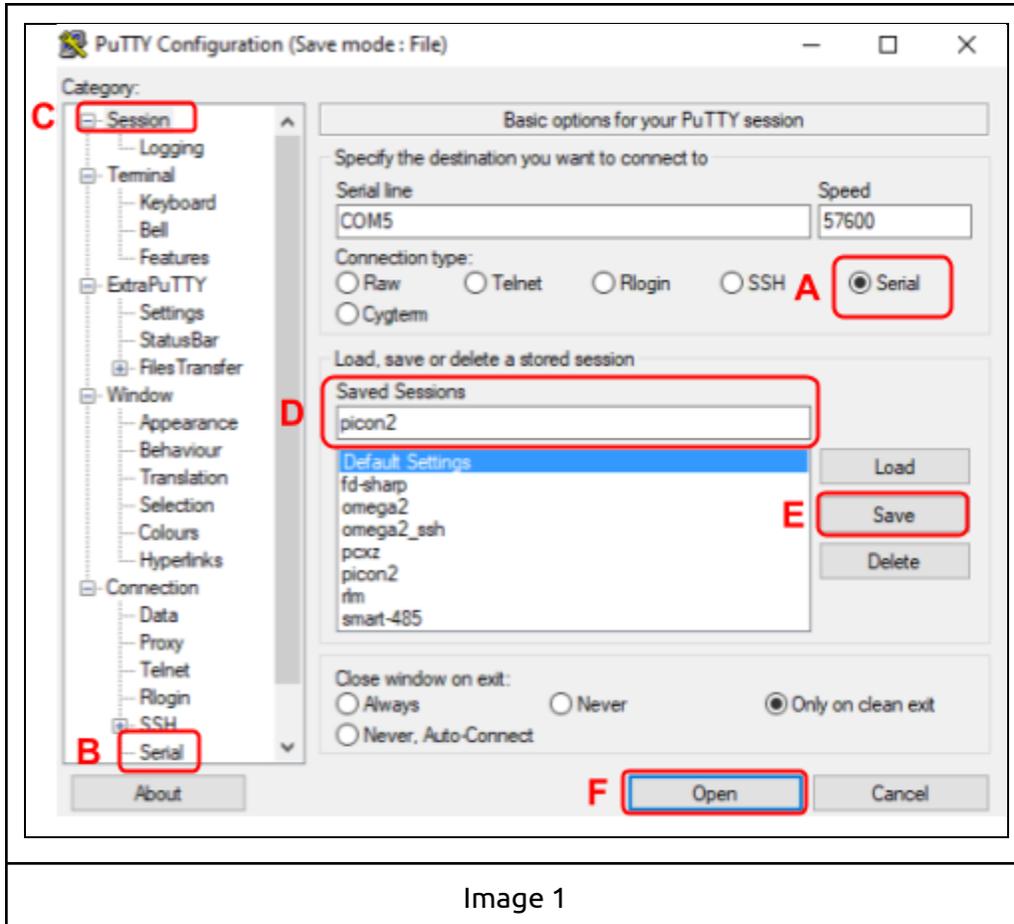


Image 1

- Select Serial for the Connection Type on this page. (See A in Image 1.)
- Select Serial from the bottom of the Category list on the left. (See B in Image 1.)

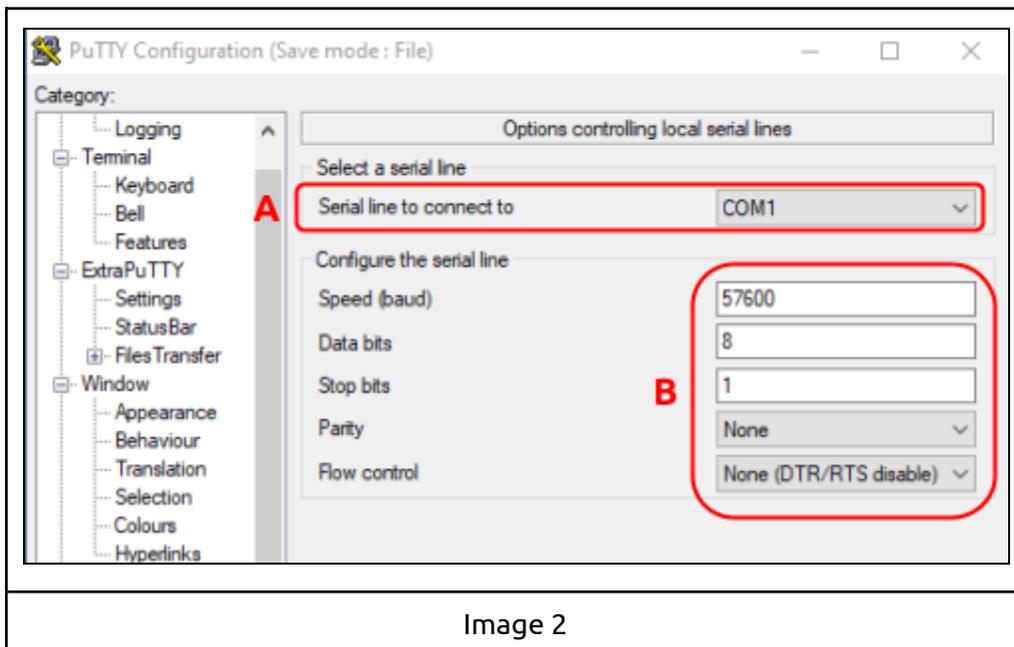


Image 2

- Change the Serial line to connect to to the COM port that was determined in Device Manager. (See A in Image 2.)
- Set all other parameters to the ones shown above. (See B in Image 2.)
- Select Session from the top of the Category listing on the left. (See C in Image 1.)
  - Confirm that the COM port is correct.
- Type Omega JR in the Saved Sessions textbox in the center of the screen. (See D in Image 1.)
- Press Save to save the session for future use. (See E in Image 1.)
- Press Open to begin the Diagnostic session. (See F in Image 1.)
- Logging information in PuTTY is sometimes necessary. Turn on logging using the following steps:
  - Select Logging from the Category listing on the left. (See A in Image 3.)
  - Select "All session output" (See B in Image 3.)
  - Browse to where the log file will be written. (See C in Image 3.)

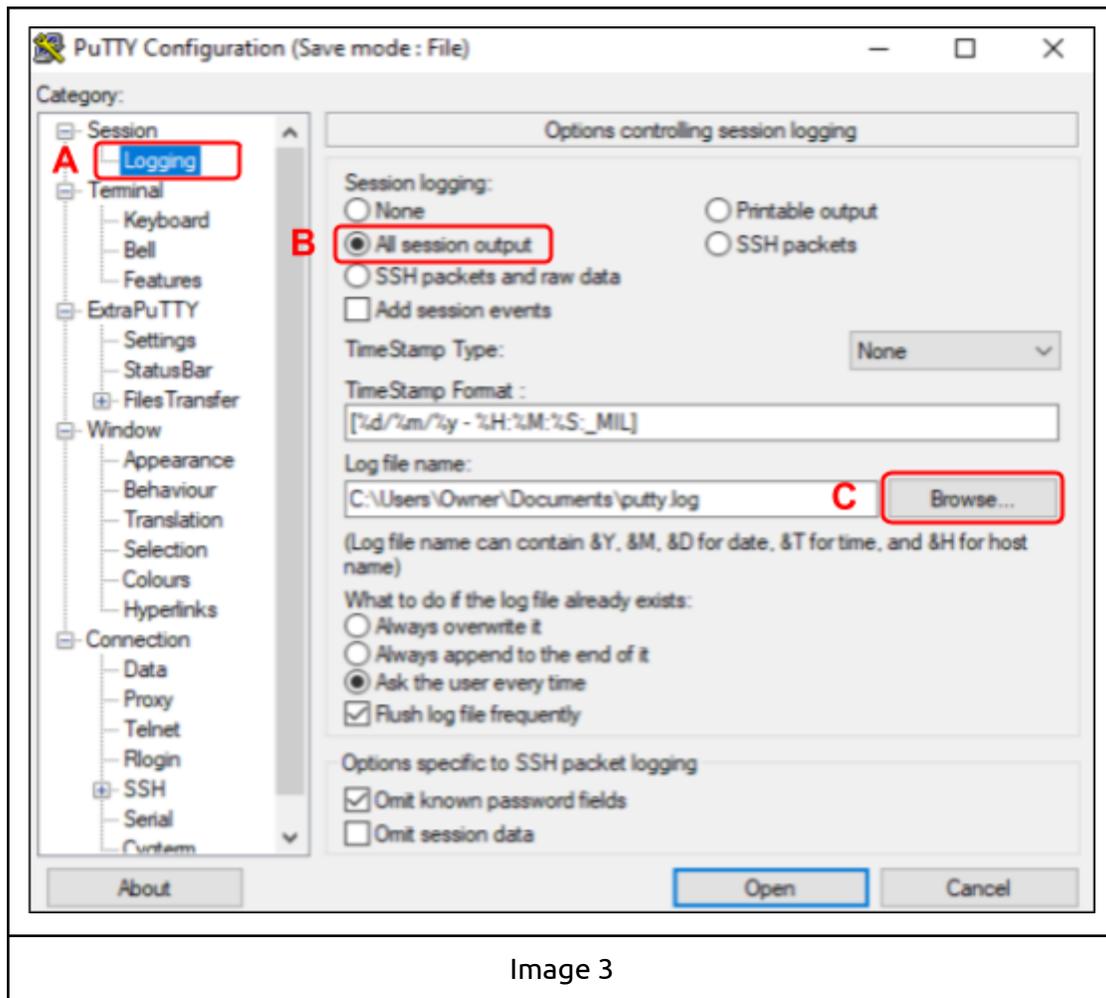
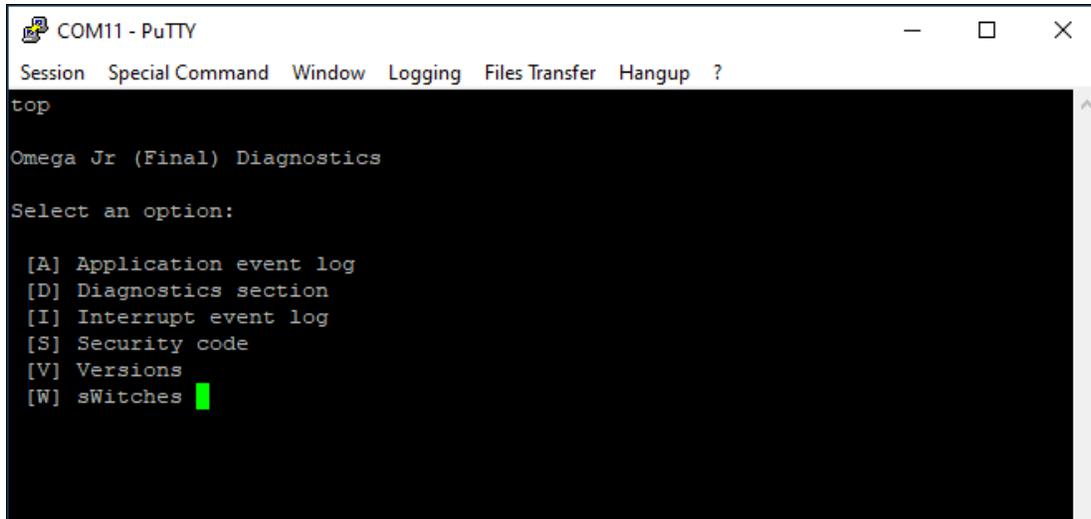


Image 3

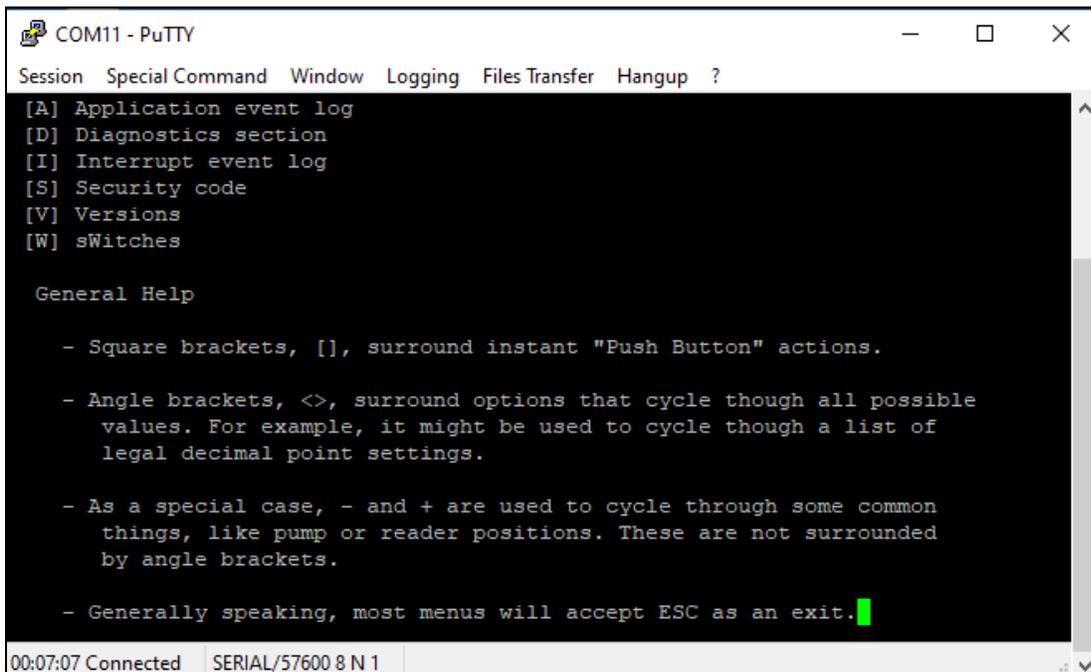
## Diagnostics

- Press Esc to get the Diagnostics menu for the connected device.



```
COM11 - PuTTY
Session Special Command Window Logging Files Transfer Hangup ?
top
Omega Jr (Final) Diagnostics
Select an option:
[A] Application event log
[D] Diagnostics section
[I] Interrupt event log
[S] Security code
[V] Versions
[W] sWitches
```

- Press ? to display Help for Diagnostic navigation



```
COM11 - PuTTY
Session Special Command Window Logging Files Transfer Hangup ?
[A] Application event log
[D] Diagnostics section
[I] Interrupt event log
[S] Security code
[V] Versions
[W] sWitches

General Help

- Square brackets, [], surround instant "Push Button" actions.

- Angle brackets, <>, surround options that cycle though all possible
  values. For example, it might be used to cycle though a list of
  legal decimal point settings.

- As a special case, - and + are used to cycle through some common
  things, like pump or reader positions. These are not surrounded
  by angle brackets.

- Generally speaking, most menus will accept ESC as an exit.
```

00:07:07 Connected SERIAL/57600 8 N 1