

Quick Start Guide

for *UNET*

Thank you for purchasing the *UNET*. The *UNET* is an intelligent, MIL-STD-1553 or ARINC 429 interface device. Its small size and ability to interface through USB or Ethernet interfaces make it a complete solution for developing, testing and performing system simulation of the MIL-STD-1553 or ARINC 429 bus, both in the lab and in the field. In addition, this device provides 8 I/O Discrete signals and an IRIG B input.

Installation

The following is a brief installation guide. For complete installation instructions, the **Installation and Setup** chapter of the user's manual. See **Manuals** on page 2.

1. Insert the Excalibur Installation CD in your computer, then double-click **setup.exe** to run the **Excalibur InstallShield Wizard**. The **Excalibur InstallShield Wizard** installs/runs the following, one after the other:
 - Installs *Excalibur Software Tools*
 - Installs utilities related to the *UNET*
 - Runs ExcConfig – Use ExcConfig to assign a device number to *UNET*. The device number is used by *Excalibur Software Tools* when accessing the *UNET*.
2. Connect the cables.

The following figures show the cable connections for USB and Ethernet connection to the host computer.

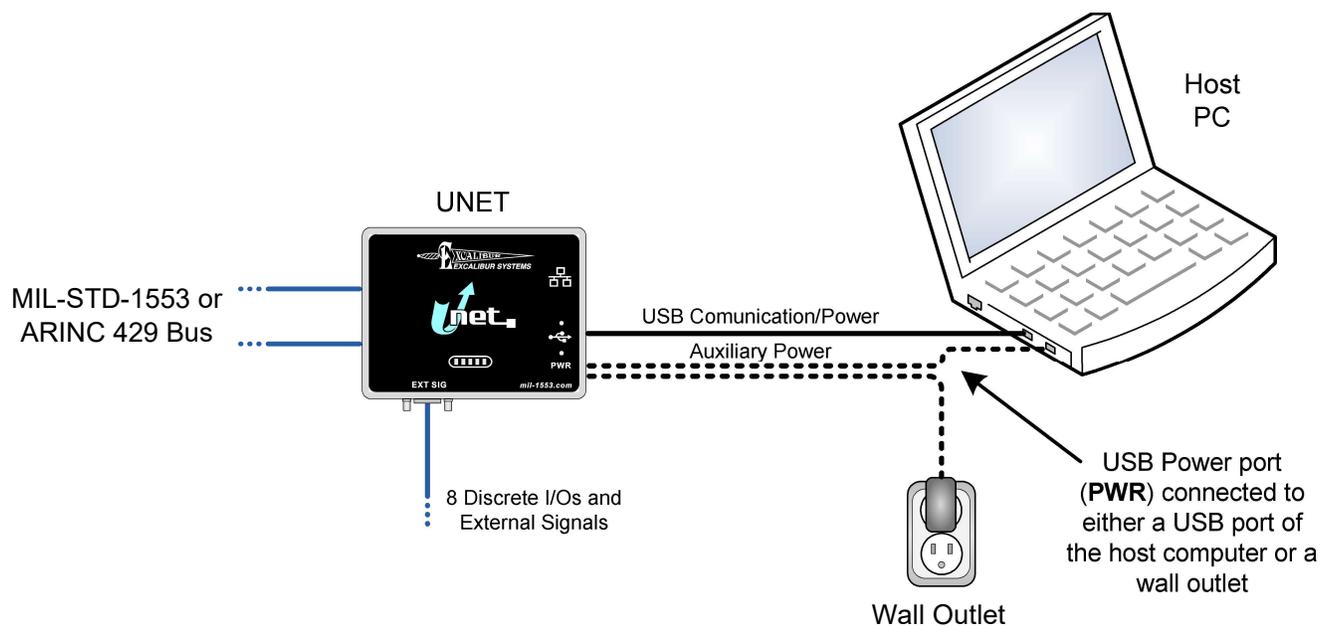


Figure 1: USB Connection with Host

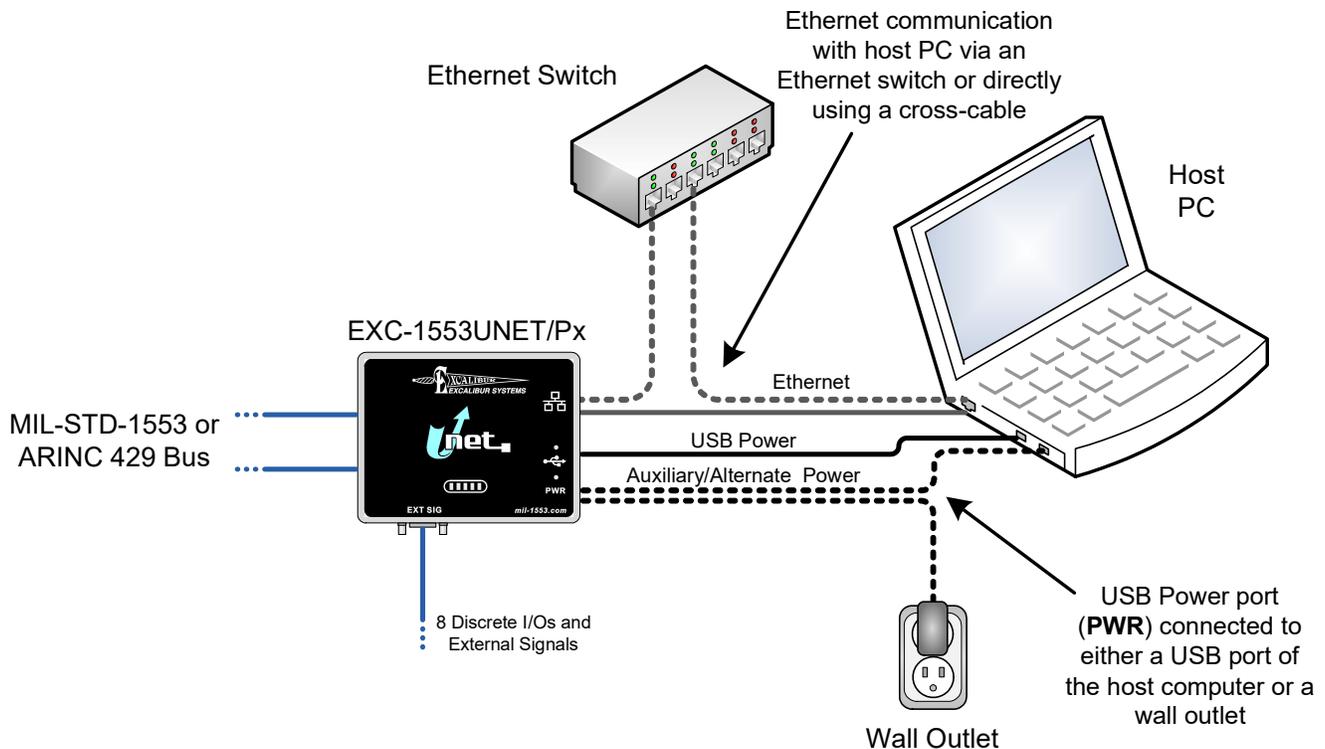


Figure 2: Ethernet Connection with Host

3. Install the USB Driver on the Host Computer by doing one of the following:
 - Connect the *UNET* to a computer that is connected to the Internet. Windows should automatically find the USB driver.
 - Open the Windows Device Manager, look for an unknown device under **Universal Serial Bus controllers** and update its driver. The driver is located at:
C:\Excalibur\Utilities\USB Driver
4. When connecting the host via Ethernet, the *UNET*'s factory default IP is: 10.72.63.45. You can change the *UNET*'s Ethernet settings using the UNET GUI Tool. See the **Installation and Setup** chapter of the user's manual.
5. Run a demo program to test that the *UNET* is working properly. The demos are located at:
C:\Excalibur\1553Px Software Tools\Source\demos_1553\bin
C:\Excalibur\429RTx Software Tools\Source\demos_429\bin

For MIL-STD-1553, you can run **demo_loopback.exe** and **demo_int.exe** without being connected to the bus, and without a loopback cable.

For ARINC 429, you can run **demo_loopback.exe** without being connected to another ARINC 429 device, but it does require a loopback cable to connect the transmit and receive channels.

Manuals

The manuals for the *EXC-1553UNET/Px* and *ES-1553RUNET/Px* are:

- *EXC-1553UNET/Px & ES-1553RUNET/Px User's Manual*, located on the CD at:
\PDFs\Manuals and Addendums\Current Products\EXC-1553UNET-Px\1553UNETpx_HW.pdf
- *1553Px Family Software Tools Programmer's Reference*, located on the CD at:
\PDFs\Manuals and Addendums\Current Products\Shared Manuals\M4K1553Px_SW.pdf

The manuals for the *DAS-429UNET/RTx* are:

- *DAS-429UNET/RTx User's Manual*, located on the CD at:
\PDFs\Manuals and Addendums\Current Products\DAS-429UNET-RTx\429UNETrtx_HW.pdf
- *429RTx & Discrete Software Tools Programmer's Reference*, located on the CD at:
\PDFs\Manuals and Addendums\Current Products\Shared Manuals\429RTx_SW.pdf

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