EMERALD

Technical Guidelines

Connection & Firmware Update

Table of Contents

Connecting the USB-C to 5Gbps Network adapter

The 5G network accesses to your laptop, using a USB-C port. This USB 3.0 Type-C to Gigabit network adapter gives you wired Ethernet network and Internet access. The NBASE-T adapter is 4-speed compatible, including IEEE 802.3bz (2.5G/5GBASE-T), IEEE 802.3U (100BASE-TX) and 802.3ab (1000BASE-T).

Status connection LEDs

Solid Orange: indicates that the CAT5/6a cable is linked to the RJ45 port with a link speed of 5Gpbs

Solid Green: Indicates that the CAT5/6a cable is linked to the RJ45 port with a link speed of 100Mbps, 1Gbps or 2.5Gbps

Flashing LED: Indicates network activity

Installation

Connect a CAT5/6a cable to the RJ45 Port of the Network Adapter and the other end to a Network Device

Connect the USB-C Connector on the Network Adapter and the other end to a USC-C port on the Host Computer

Driver Installation

If the Driver do not automatically download once you connected the Network Adapter to the Host Computer

1. A message that a virtual CD is loaded will appear
2. Click on the message, the CD Drive screen will open
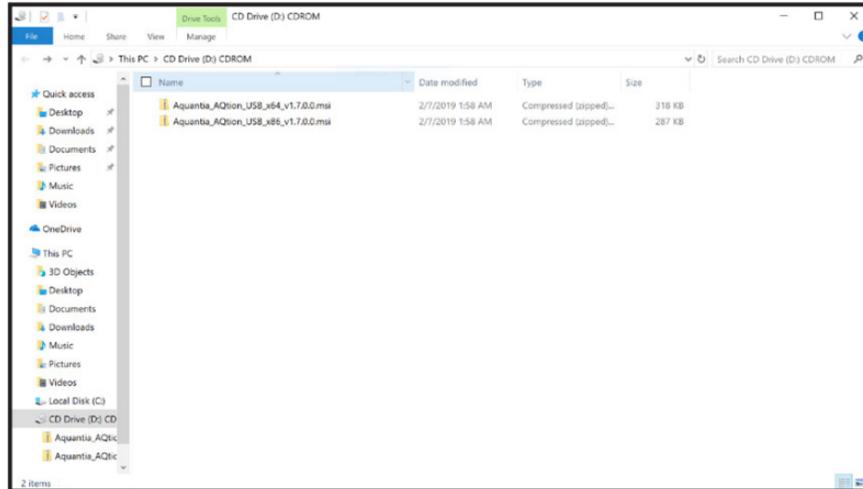
3. Click on the folder that is compatible with the Host Computer and unzip the content on the folder
4. Click on the Installer Package, the Installation Wizard will appear.

5. Follow the on-screen instructions to complete the installation
6. Once the installation is complete, you may be prompted to restart the Host Computer. If not automatically requested, it is still recommended to restart the Host Computer.

Connecting EMERALD to a workstation

EMERALD does not use Bootp Server connector like legacy Zetec RDAU instrumentation.

For connecting an EMERALD to a Host Computer running UltraVision, you need to use a Fix IP Address. To configure the network adapter:

1. Select the Network Adapter and edit its properties. (If using the USB-C to 5Gbps Network adapter provided with the EMERALD instrument please refer to Connecting the USB-C to 5Gbps Network adapter section for the installations instructions).
2. Select the Version 4 Internet Protocol option and click on the Properties button.
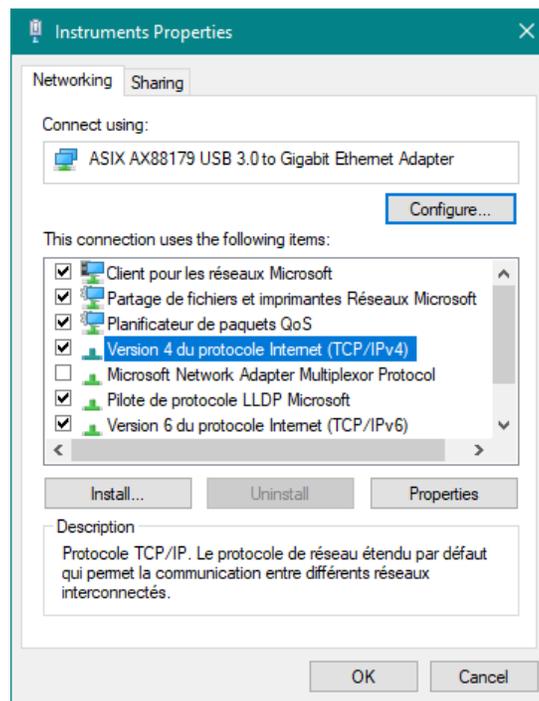
3. Select the Use the following IP address option and enter a fixed IP address such as 192.168.0.1. Set the Subnet mask to 255.255.255.0
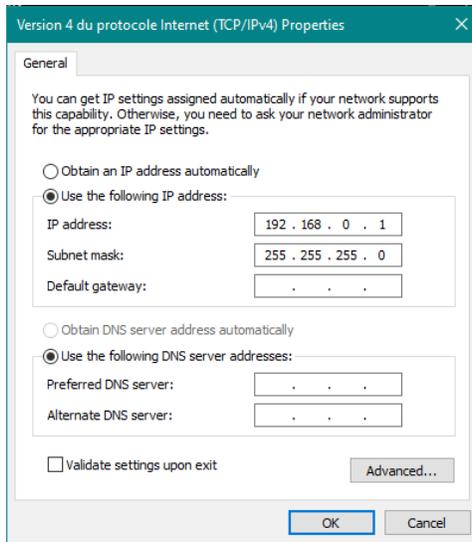
4. Click on Ok to set the new IP address and then on OK again to close the Network Properties window
5. Connect the EMERALD unit using a CAT5/6a cable to the network adapter.
6. Open UltraVision software (version 3.4R11 or later) and click on the Connect to Instrument option
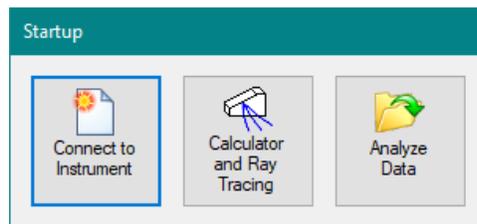
7. When the EMERALD unit is powered up, it will appear as a connection option
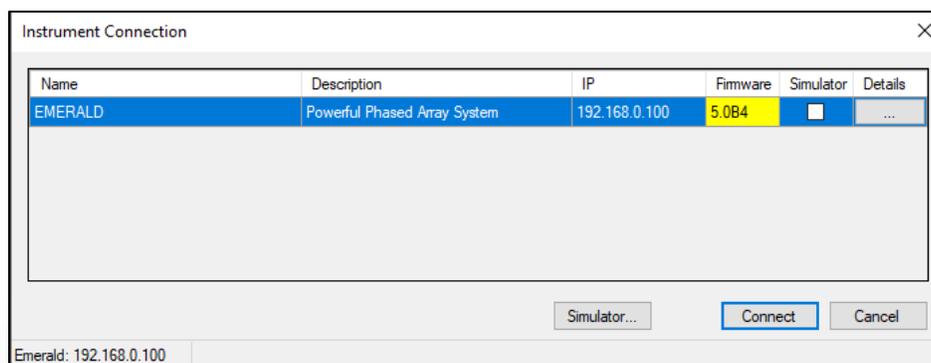
8. Select the instrument to connect and click on the Connect button

Upgrading the EMERALD firmware

1. If the UltraVision Classic version that you are running requires a more recent firmware version than the version currently installed in the EMERALD, the *Firmware* field will be yellow highlighted
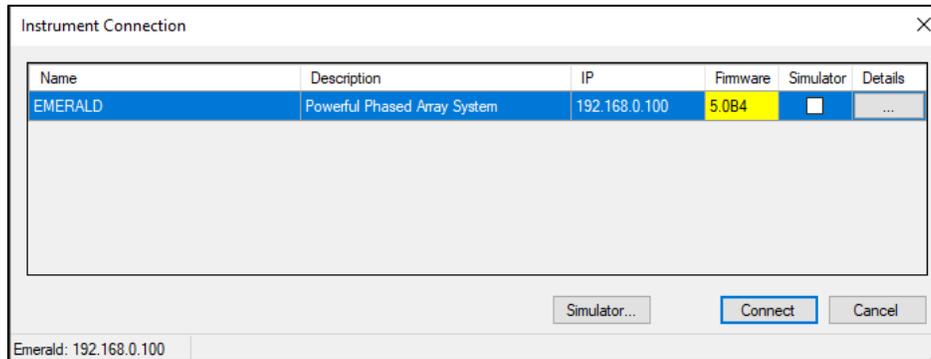
2. To upgrade the firmware, copy the new firmware version file in a directory of your choice on the PC, and click on the *Details* button
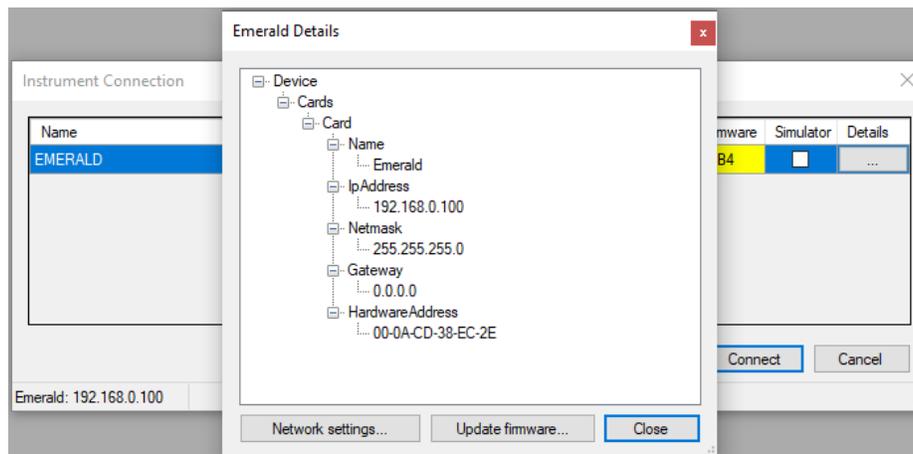
3. Click the *Update firmware* button, browse to the location of the firmware version file, and click *Open*
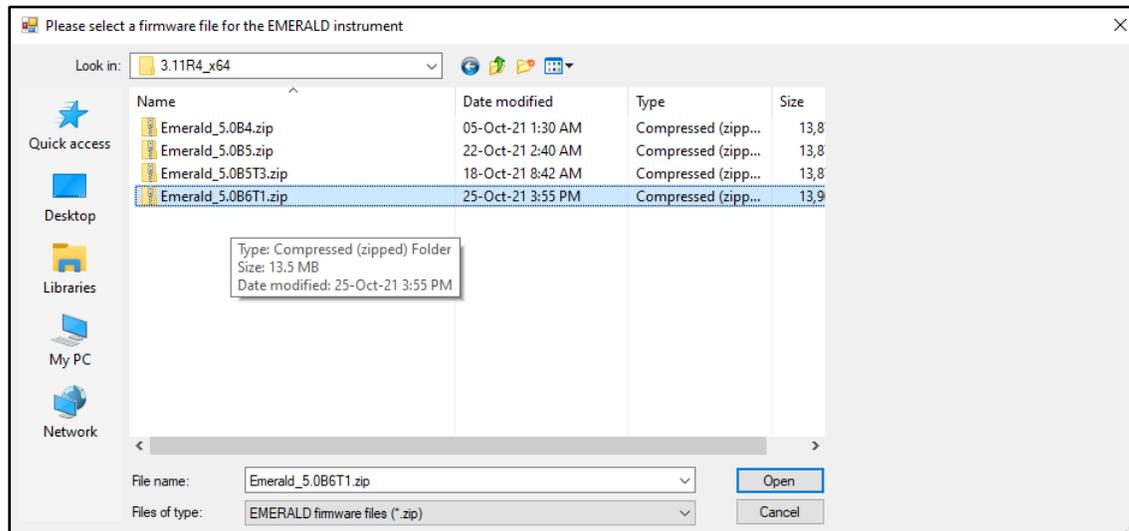
4. The firmware will be rapidly installed, and the software will give notice of the successful update
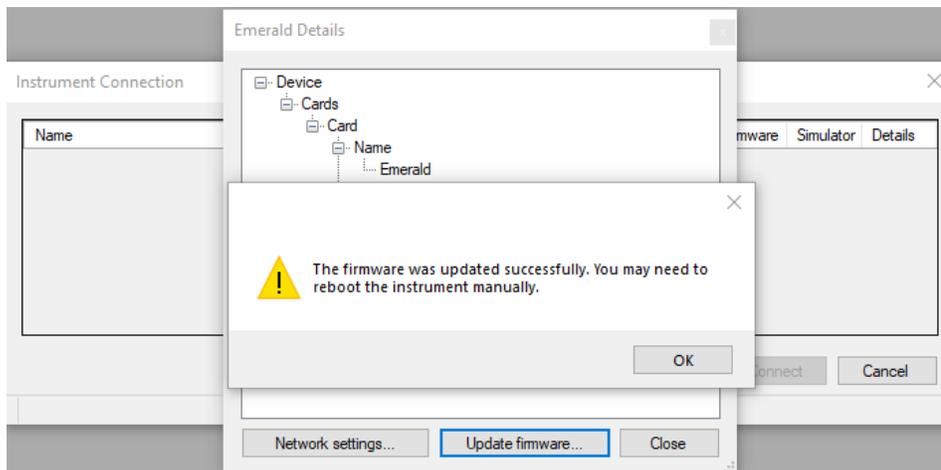
5. Click *OK* to proceed, in most cases the EMERALD will reboot automatically and the following screen will appear (if not, just shut down and reboot the unit); the firmware version in the EMERALD now matches with the UltraVision Classic software version and the *Firmware* field is not highlighted
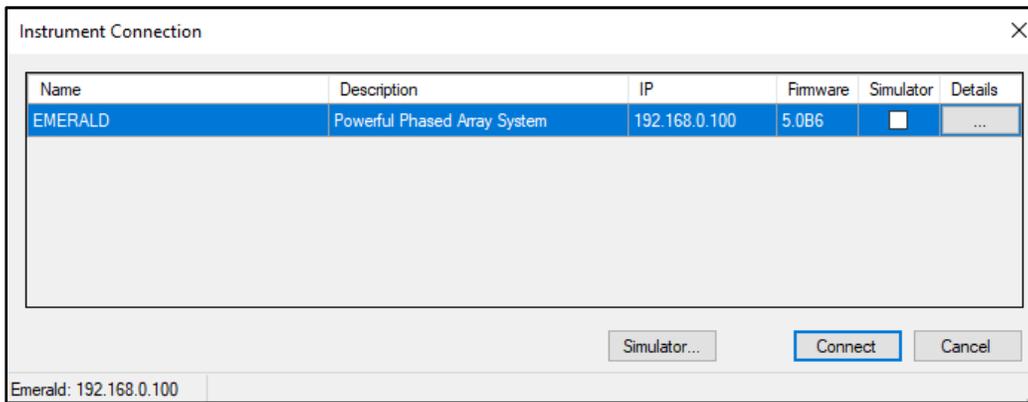
6. Click on the Connect button

Quality

All work is performed in accordance with ZETEC Quality standards program, which complies with 10CFR50 Appendix B, ISO 9001:2015 and ISO/IEC 17025:2015.

Toll free: 800.643.1771 (USA)

info@zetec.com

www.ZETEC.com

ZETEC