

Equator Controller

Ethernet setup – Controllers A-5696-0101, A-5696-0102

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Equator Ethernet setup

An Ethernet connection to the Equator controller can be useful for two main reasons:

- To map a network drive allowing data transfer and backup to a PC/network. This enables the use of third party software, such as SPC, which would be installed on the PC.
- To run MODUS on a PC allowing additional functionality between MODUS and third party software. MODUS can then be configured to run the Equator controller over the IP network.

There are two different options for connecting the Equator gauging system to a secure network, see diagram below.

Option 1) is to connect one Equator to the corporate network and **Option 2)** is for several Equators via an Ethernet switch.

Communication to secure network

The Equator controller can access the corporate network

directly or go through a proxy machine; the proxy machine can be configured to the user's specification. For example, this may include user login, antivirus monitoring, etc. The proxy machine needs to have two network cards. Instructions below describe this configuration, but this step is optional.

Back-up of data

In addition to the storage on the Equator controller, results can be automatically backed up on the PC or on a location on the network depending on configuration and requirements, once the Ethernet connection is set up. This is done by calling post-scripts in the DMIS program.

Mapping network drives

After establishing an Ethernet connection, a network drive can be mapped, using the File System menu on the Equator.

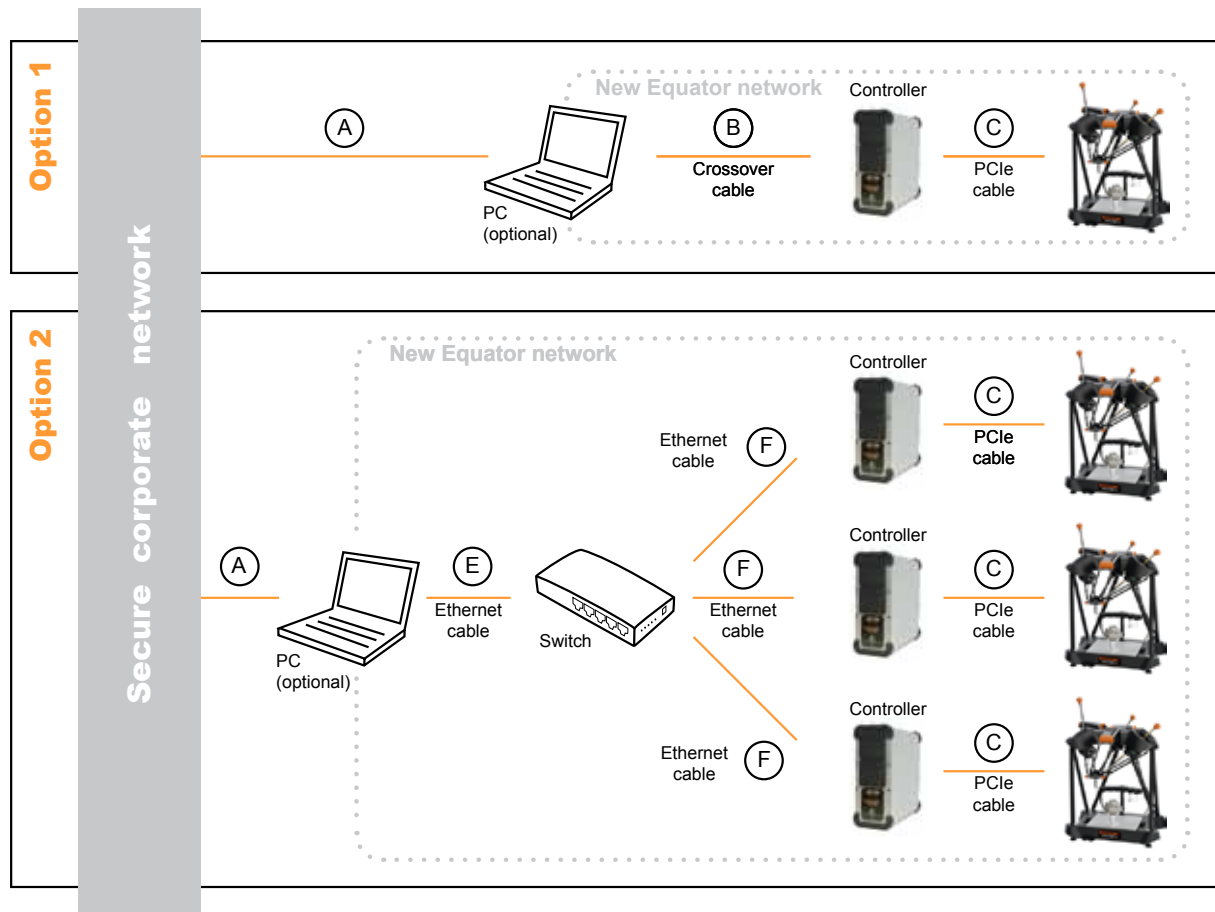


Figure 1. Connecting one or multiple Equator controller/s to a secure network via an (optional) PC with two network cards. Letters A-F are referenced in setup instructions on coming pages.

Ethernet setup instructions – Option 1

1. Configure and connect the first Ethernet card on the optional PC for the corporate network. Consult your IT administrator for help.
2. Configure and connect the PC's second Ethernet card for the new Equator network (B).
 - a. Consult your IT administrator for an IP address and subnet address suitable for this new network. For example (192.168.1.100/255.255.255.0)
 - b. Connect the PC's second Ethernet card to the single Equator controller via crossover cable.
3. Configure the Equator controller
 - a. Turn on the Equator controller
 - b. Click on **Manager**



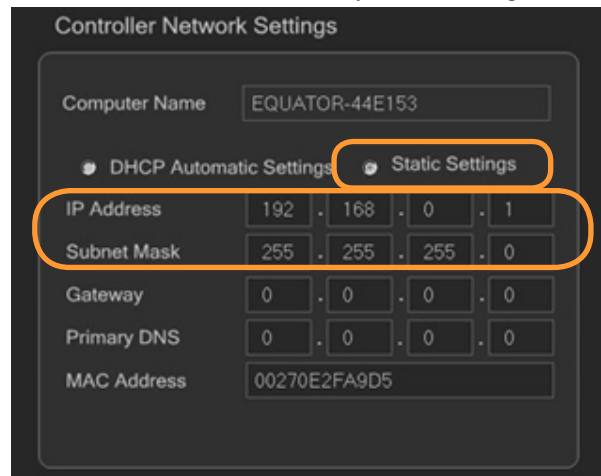
- c. Next, click on **Ethernet**



- d. Click on **Advanced**



- e. A message will appear, warning that changes to these settings may cause system instability. Click **OK**.
- f. Click the radio button that says **Static Settings**.



- g. Change the **IP address** and **Subnet mask** to one provided by your IT administrator.
For Example (192.168.1.101/255.255.255.0)
- h. **Note. DO NOT change the MAC Address.**
- i. Click **Accept**



- j. It may ask for the system to be rebooted.
If so, click **OK**.

4. The PC and Equator controller are now connected. This is pictured as (B). The connection between the Equator controller and the Equator machine is handled by Renishaw on the Equator controller. This is pictured as (C). Ethernet setup is now complete.

Ethernet setup instructions – Option 2

1. Configure and connect the first Ethernet card on the optional PC for the corporate network. Consult your IT administrator for help.
2. Configure and connect the PC's second Ethernet card for the new Equator network, (E) + (F).
 - a. Consult your IT administrator for an IP address and subnet address suitable for this new network. For example (192.168.1.100/255.255.255.0)
 - b. Connect the PC's second Ethernet card to the new Equator network (E) via patch (Ethernet) cable to the Ethernet switch. Then connect all Equator controllers to the Ethernet switch via patch cables (F).
3. Configure the Equator controller
 - a. Turn on the Equator controller
 - b. Click on **Manager**



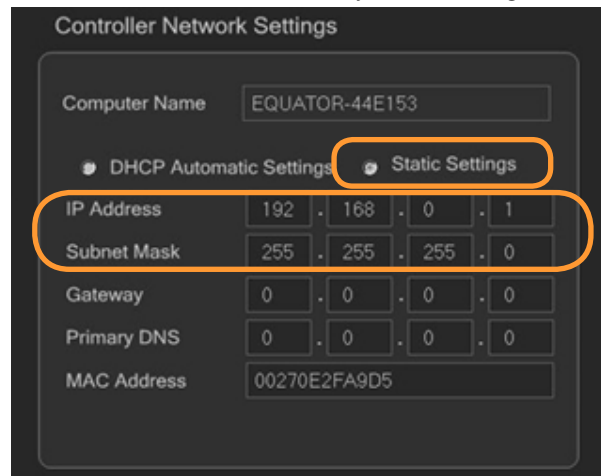
- c. Next, click on **Ethernet**



- d. Click on **Advanced**



- e. A message will appear, warning that changes to these settings may cause system instability. Click **OK**.
- f. Click the radio button that says **Static Settings**.



- g. Change the **IP address** and **Subnet mask** to one provided by your IT administrator.
Note the IP address must be unique and not clash with other IP addresses on the Equator network. For example In the **Option 2** diagram, there are three Equator controllers that can be set up as below
 - Controller 1 (192.168.1.101/255.255.255.0)
 - Controller 2 (192.168.1.102/255.255.255.0)
 - Controller 3 (192.168.1.103/255.255.255.0)
- h. **Note. DO NOT change the MAC Address.**
- i. Click **Accept**
- j. It may ask for the system to be rebooted.
If so, click **OK**.

4. The PC and Equator controllers are now connected.
This is pictured as (E) + (F). The connection between the Equator controller and the Equator machine is handled by Renishaw on the Equator controller. This is pictured as (C). Ethernet setup is now complete.

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