



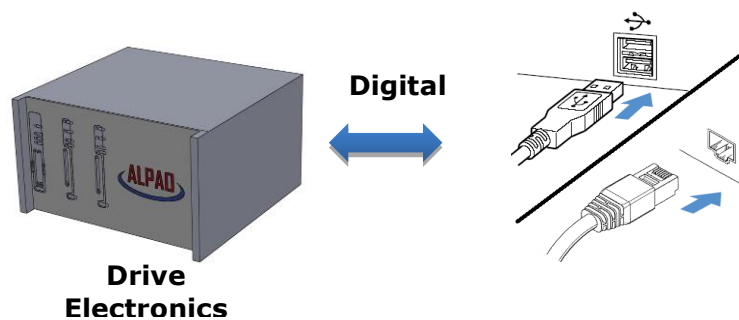
ALPAO DRIVE ELECTRONICS

Assign a Static IP

■ OVERVIEW

By default, the IP address of the Alpao Drive Electronic is set dynamically using the DHCP server on your network. That is very useful; however, if you wish to force your drive electronics to have a specific identifiable location in your network you need to change your IP address to be static.

We recommend to connect the drive electronics and the computer together directly (without Switch), using a dedicated Ethernet interface (100 Mbps or upper) and an Ethernet crossover cable.



■ PLUG THE USB AND ETHERNET CABLES

1. To define a static IP address on your electronics, you must connect the two interfaces (USB and Ethernet) to your computer.
2. Then start your electronics box.
3. If the USB drivers have been properly installed, Windows automatically recognizes the electronics.

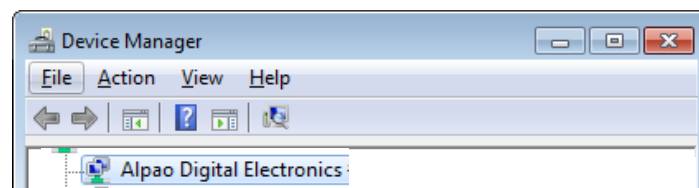


Figure 1: Device manager

■ SETUP IP ADDRESS

1. Using your favorite browser, go to the page:
<http://192.168.7.2/NetworkSetup.php>

You should see:



Drive Electronics Etherhet IP

New IP mode

☐ Static ☒ Dhcp

New IP Address

New IP Mask

New Gateway

Submit Query

Current setup:

```
eth0      Link encap:Ethernet  HWaddr c4:f3:12:9a:ed:8f
          inet addr:192.168.7.2  Bcast:192.168.7.255  Mask:255.255.255.0
```

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.7.0	*	255.255.255.252	U	0	0	0	usb0
192.168.7.0	*	255.255.255.0	U	0	0	0	eth0

2. Fill the IP Address and IP Mask fields. The Gateway field does not need to be changed.
3. Click on the "Static" checkbox and fill the text input with your network information.
4. Click "submit" to confirm your change.
5. You can unplug the USB cable
6. The electronics should restarts after 30 seconds to 1 minute.

Submit

■ CONFIGURATION FILE CHANGES

You need to specify the new IP address in your configuration file "BXXYYY.acfg".

1. Go to folder %ACECFG% (simply copy and paste this path to the Windows explorer)

Default directory should be C:\Program Files\Alpao\SDK\Config\

2. Copy your configuration file with extension .acfg to the desktop.
3. Open it (using the default notepad editor).
4. Append at the end of line:

ip <your new ip>

Example of complete string (DEv5):

interface eth startChannel 0 ip 192.168.0.2

Example of complete string (DEv7):

interface eth startChannel 0 ip 192.168.0.2 deVersion 7

5. Move back the configuration file to the previous folder.

■ TROUBLESHOOT

1. MTU PROBLEM

- Diagnostic: The diagnostic webpage is accessible in Ethernet (<http://192.168.0.2>), but the DE ACTIVITY/DATA LEDs do not blink when commands are send.
- Solution: Change the MTU to 1500C
- On Windows: check the MTU of the Ethernet interface using the Windows command
netsh interface ipv4 show subinterfaces
Then change it using the following command:
netsh interface ipv4 set subinterface INTERFACE_NAME mtu=1500 store=persistent
- On Linux, this can be changed with the following command:
sudo ifconfig eth0 mtu 1500

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