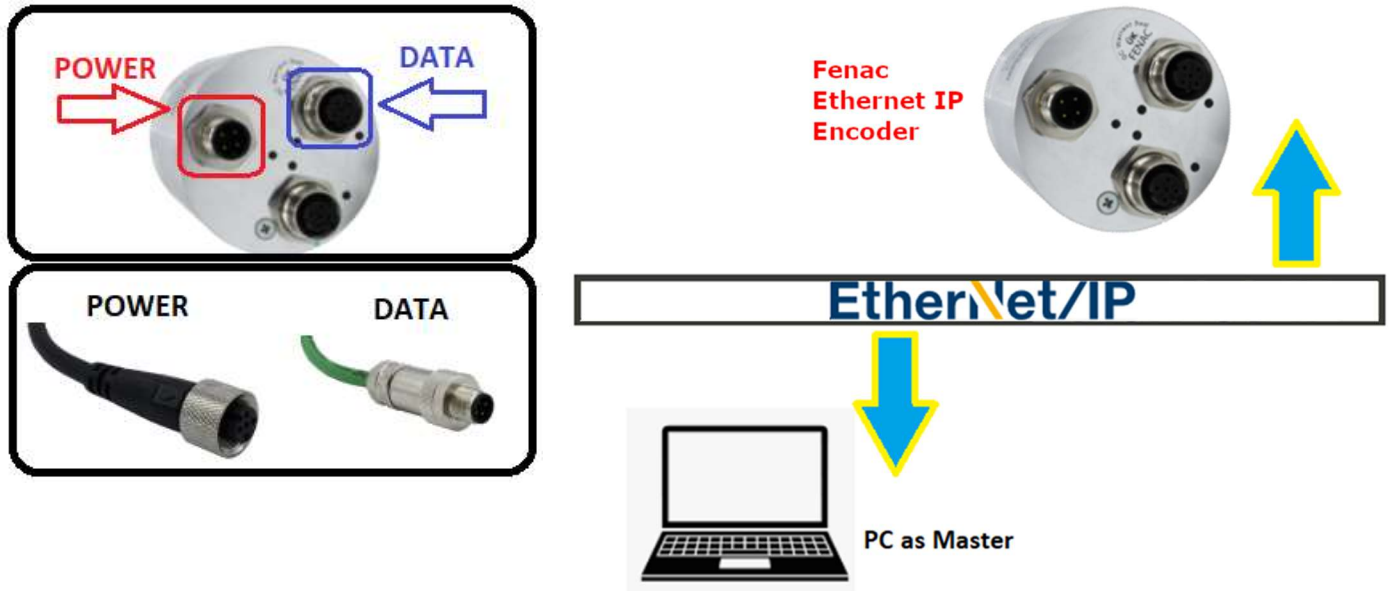


Assigning IP addresses to Ethernet IP devices.



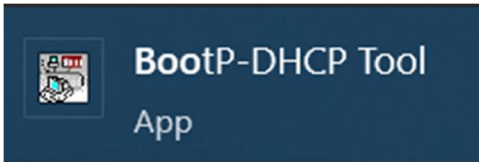
Please connect Fenac Ethernet IP encoder device to a PC which you are going to use as Ethernet IP Master Device.

```
C:\Users\fenac_pc > ipconfig
Windows IP Configuration

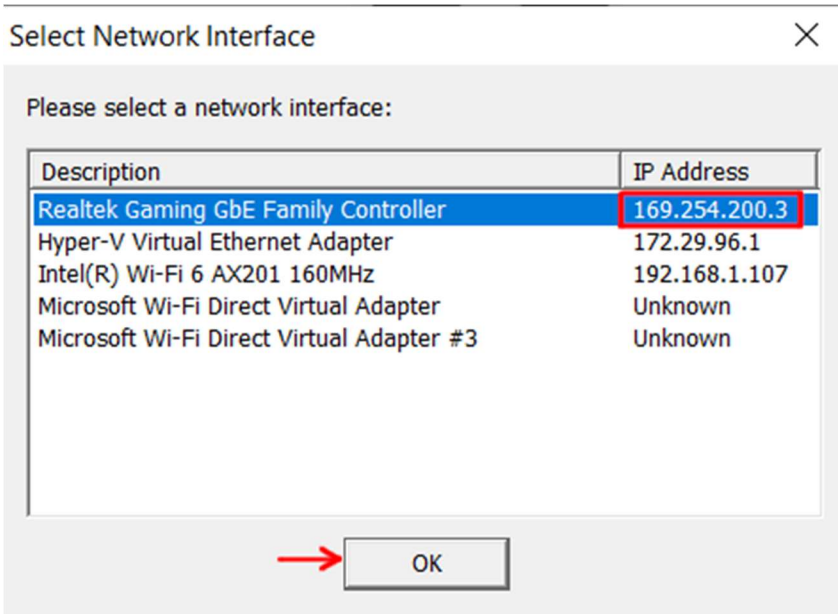
Ethernet adapter Ethernet:

    Connection-specific DNS Suffix . : 
    IPv4 Address. . . . . : 192.168.2.146
    Subnet Mask . . . . . : 255.255.255.0
    IPv4 Address. . . . . : 169.254.200.3
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . :
```

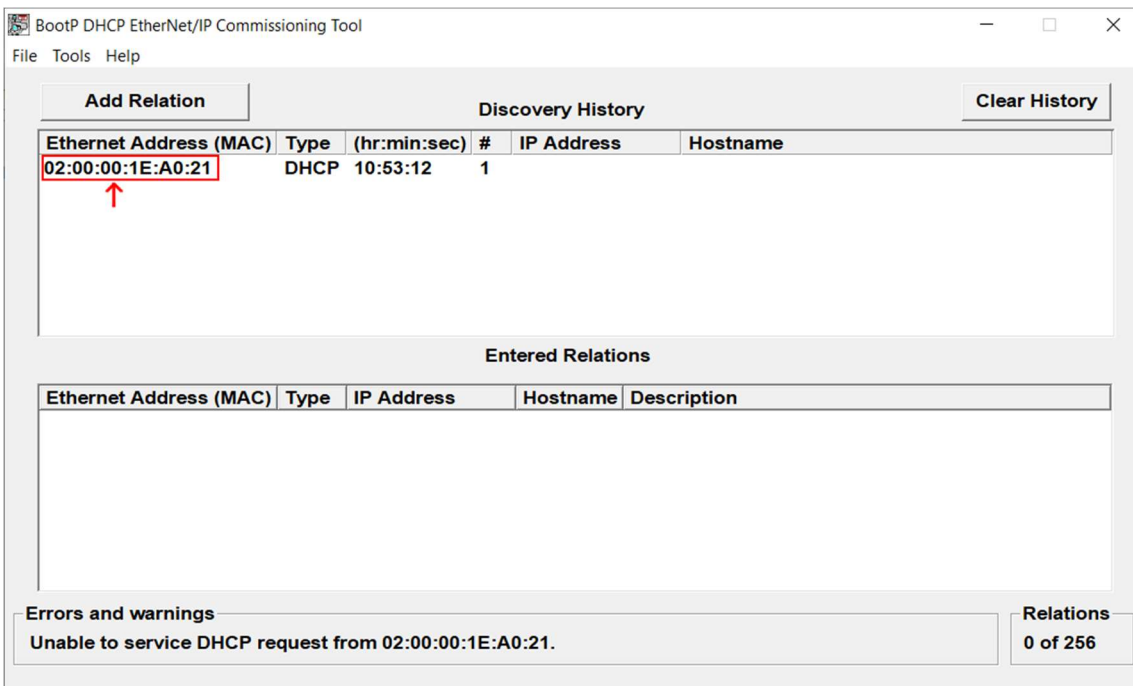
Open command window and enter ipconfig to see your Ethernet adapter's IP Address. It is 169.254.200.3 in our case.



Open BootP-DHCP Tool which you can download from rockwellautomation.com



Now we can see our onboard ethernet controller has the IP Address of 169.254.200.3 which we previously found via command prompt. Click OK.



We found our ethernet IP encoder's MAC Address here. Double click it open.

New Entry ×

Server IP Address:

Client Address

Client IP Address:

Hostname:

Description:

Please enter the IP Address which you want to use. For the first 3 bytes of IP Address can not be changeable due to subnetmask. You can set the subnet masks if you want to change from the Tools > Network Settings menu.

Network Settings ×

Defaults

Adapter: Realtek Gaming GbE Family Controller

Server IP address:

Subnet

Gateway:

Primary

Secondary

Domain

Ethernet Address (MAC)	Type	IP Address
02:00:00:1E:A0:21	DHCP	169.254.200.10

We set Fenac Ethernet IP encoder’s Ip Address to 169.254.200.10. To test if this you can ping this IP Address from windows command prompt with the following code “ping 169.254.200.10”

```
C:\Users\ >ping 169.254.200.10

Pinging 169.254.200.10 with 32 bytes of data:
Reply from 169.254.200.10: bytes=32 time=2ms TTL=255
Reply from 169.254.200.10: bytes=32 time<1ms TTL=255
Reply from 169.254.200.10: bytes=32 time<1ms TTL=255
Reply from 169.254.200.10: bytes=32 time=1ms TTL=255
```

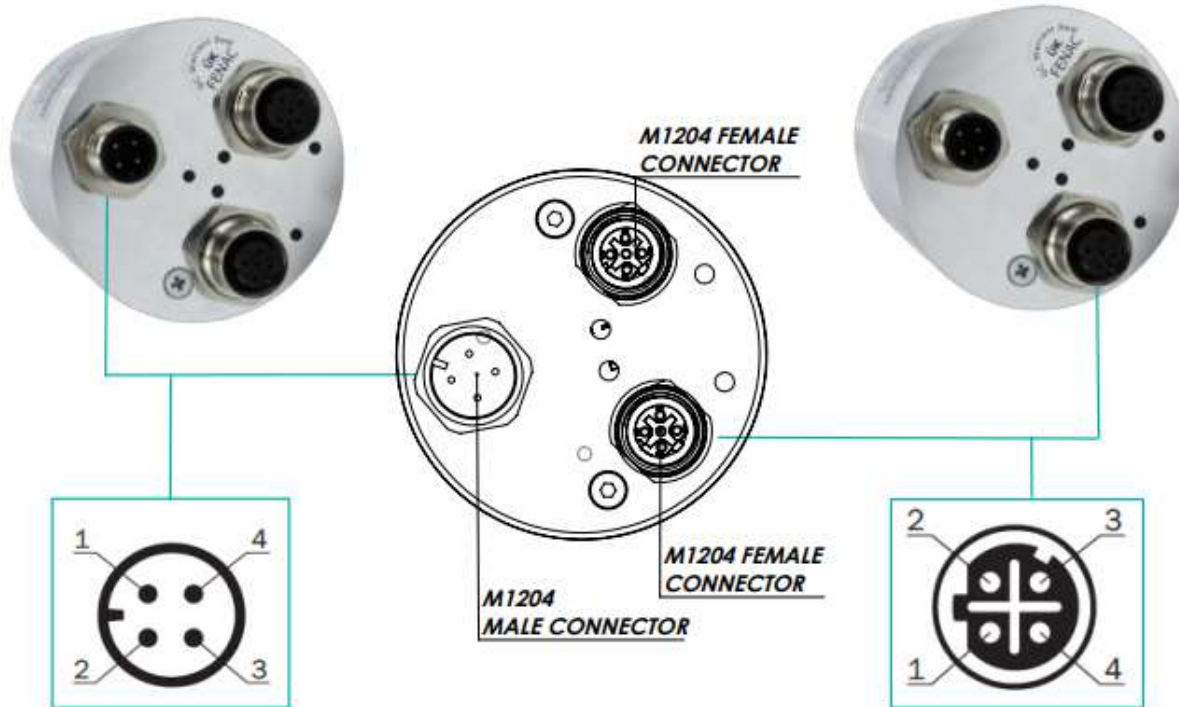
That is all. You can now connect to the Fenac Ethernet IP Encoder using this IP Address.

You can follow the instructions on our Ethernet IP Encoder User Guide.pdf file to communicate with your PLC interface. In this case we used twincat interface to test our encoder’s new IP Address.

Name	[X]	Online	Type	Size	>Addre...	In/Out
Fault Header		0x00000000	DWORD	4.0	2.0	Input
Position Value		22353950	DINT	4.0	6.0	Input
Velocity Value		3	DINT	4.0	10.0	Input
Alarm Flag		0	SINT	1.0	14.0	Input
Warning Flag		0	SINT	1.0	15.0	Input
noname0_arrBYTE		0x0000 (0)	ARRAY [0..1...	2.0	16.0	Input

4. Connector & Pin Assignment

Pin Assignment



PIN	Signal
1	U _s 10 V...30V
2	Not assigned
3	GND
4	Not assigned

PIN	Signal
1	T x D+
2	R x D+
3	T x D-
4	R x D-

Counter Connector Part Number

FCSF M1204 : M1204 Female Connector
FCSF M1204 R200 : M1204 Female Connector with 2 meter cable



Counter Connector Part Number

FCSM DTM1204 : D Type M1204 Female Connector
FCSM DTM1204 R200 : D Type M1204 Female Connector with 2 meter cable

