

EoE Setup

On PI

eth0 (Ethernet Port) -> EtherCat Port
eth1 (USB to Ethernet Adapter) -> Setup Port

Settings on Debian Linux

/etc/dhcpd.conf

```
Interface eth1
Static ip_address=192.168.0.50
Auto eth1 iface eth1 inet manual
```

This sets the 192.168.0.50 service address to the ethernet port. This address is then used for remote access and within CodeSys

/usr/local/sbin/enablebr0.sh

```
ip link add br0 type bridge
ip link set tap0 master br0
ip link set eth1 master br0
ip link set dev br0 up
ip addr add 192.168.0.51/24 dev br0
```

This sets the local bridge from eth1 to eth0 with the same subnet as exists on eth1.

The slaves need then to match this ip address range.
Here 192.168.0.xxx



On Windows

Ethernet port 192.168.0.98 (same subnet as eth1)

Settings CodeSys

Master

Autoconfig master/slaves



EtherCAT NIC Settings

Destination address (MAC) Broadcast Redundancy

Source address (MAC)

Network name

Select network by MAC Select network by name

▲ Distributed Clock ▶ Options

Cycle time

Sync offset

Sync window monitoring

Sync window

Slave

Settings

Virtual Ethernet port

Virtual MAC ID

Switch port IP port

IP Settings

IP address

Subnet mask

Default gateway

DNS server

DNS name

