**BOOT UP WITH ETHERNET**

# Data to boot.

* Device tree (dtb file).
* Image.
* Rootfs.

# Prepare Linux PC.

* Use ethernet wire connect between Linus PC and board
* In Linux PC:

# sudo systemctl network.manager

# sudo systemctl restart network-manager.service

# sudo systemctl enable network-manager.service

# sudo vim /etc/netplan/01-network-manager-all.yaml

network:

version: 2

ethernets:

enp0s31f6:

addresses: [192.168.17.2/24]

gateway4: 192.168.17.1

dhcp4: no

(comment all parameters that are not mentioned above)

# sudo netplan apply

# sudo systemctl restart network-manager.service

# sudo systemctl enable network-manager.service

# ifconfig

# Setup U-Boot.

* Check and set boot environment with following command:

**$ printe**

**bootargs=rw root=/dev/nfs nfsroot=192.168.10.55:/data/tftpboot/thanhle/m3n\_v5.9/rootfs,nfsvers=4 ip=192.168.10.120**

**bootcmd=tftp 0x48080000 thanhle/e3\_v5.9/Image;tftp 0x48000000 thanhle/e3\_v5.9/r8a77990-ebisu-4d.dtb;booti 0x48080000 - 0x48000000**

**bootdelay=2**

**bootm\_size=0x10000000**

**ethact=ethernet@e6800000**

**ethaddr=2E:09:0A:03:87:D6**

**fdtcontroladdr=bfe17c68**

**fileaddr=48080000**

**filesize=2967a00**

**ipaddr=192.168.10.120**

**loadaddr=0x58000000**

**platform=r8a77990**

**serverip=192.168.10.55**

**stderr=serial@e6e88000**

**stdin=serial@e6e88000**

**stdout=serial@e6e88000**

**usb\_pgood\_delay=2000**

**ver=U-Boot 2018.09 (Oct 13, 2023 - 21:52:35 +0700)**

* Save environment setup:

**$ savee**

* Boot up board with command:

**$ run bootcmd**