

How to find the DNP/9200 Ethernet MAC Address

For some network configuration tasks (i.e. Firewall setup procedures) it can be necessary to know the Ethernet MAC address of a specific network member. The DIL/NetPC DNP/9200 offers two different ways to find out the current MAC address: 1. use the U-Boot boot loader **printenv** command or 2. use Linux **ifconfig** command.

- 1. Step: Setup a serial link (RS232 Serial Link) between the DIL/NetPC DNP/9200 COM1 serial port and a serial port of your PC system. Use a null-modem cable for the physical connection between the COM1 port of the DIL/NetPC DNP/9200 and the PC COM port. For more details about this connection please use the DIL/NetPC DNP/9200 Starter Kit documentation.
- **2.** Step: Run your terminal emulation program. Microsoft Windows-based PC systems offer *HyperTerminal* for this task. Linux-based systems come with *Minicom*. Then power-up your DNP/9200.
- **3.** Step with U-Boot: Wait for the first message of U-Boot within your terminal emulation program window. Please hit any key for interrupt the U-Boot autoboot process. Then enter the command:

printenv

The U-Boot boot loader displays some environment variable. The value for **ethaddr** is the DNP/9200 MAC address.

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🌯 DIL-NETpc - HyperTerminal
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                                                                                                   ~
 U-Boot code: 21F00000 -> 21F1666C BSS: -> 21F1AC44
 RAM Configuration:
  Bank #0: 20000000 32 MB
  Flash: 16 MB
  In:
          serial
  Out:
          serial
         serial
  Err:
  Hit any key to stop autoboot: 0
  U-Boot> printenv
 bootargs=console=ttyS0,115200 root=/dev/ram
 baudrate=115200
 ethaddr=02:80:ad:20:57:23
bootfile="img-dnp9200"
 bootcmd=bootm 0x10040000
 bootdelay=2
  ipaddr=192.168.1.126
 serverip=192.168.1.1
netmask=255.255.255.0
 |stdin=serial
 |stdout=serial
 stderr=serial
  Environment size: 251/4092 bytes
 U-Boot>
Verbunden 00:00:34
                      ANSIW
                                 115200 8-N-1
                                                      NUM.
                                                           Aufzeichn
```



• **3.** Step with Linux: Wait until the DNP/9200 Linux ask you for a user name. Please enter the user name root. This user name needs no password. Just hit the Enter key if the DNP/9200 Linux ask for a password. Then enter the command:

ifconfig

The DNP/9200 Linux operating system displays some information's about the Ethernet LAN interface **eth0**. The value for **HWaddr** is the DNP/9200 MAC address.



That is all.