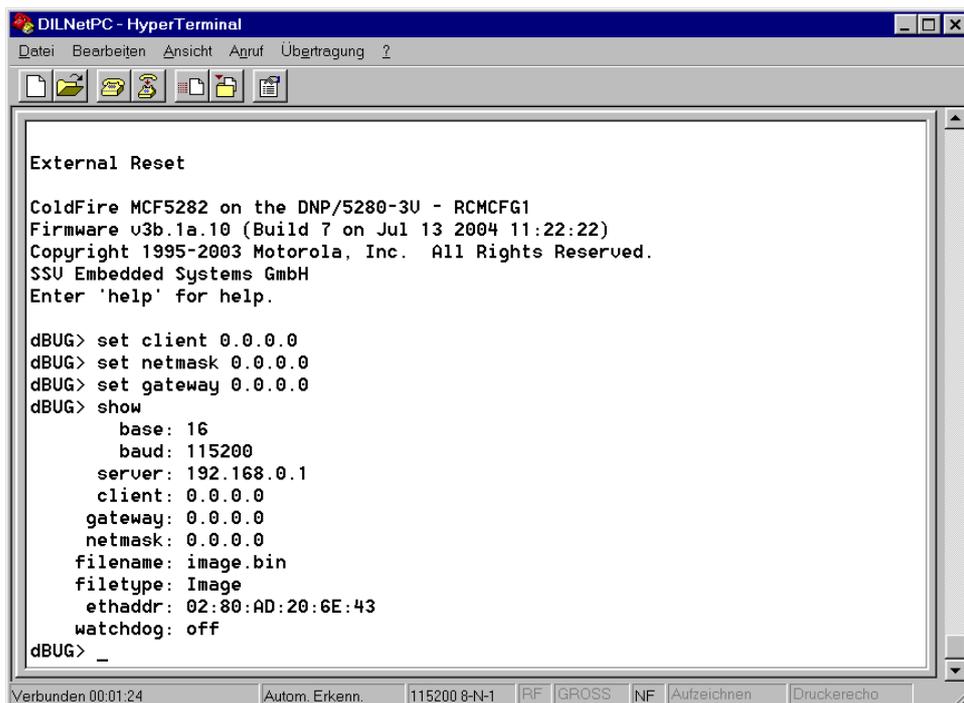


## How to set the DNP/5280 IP Address with DHCP

In some networks it can be necessary to request a IP address at boot time from a DHCP server. The DIL/NetPC DNP/5280 offers a DHCP client for these environments.

- **1. Step:** Make sure that on your DIL/NetPC DNP/5280 runs a Linux O/S Image File Release 3 or newer. See *mHT5280-31.pdf: How to identify the DNP/5280 Linux O/S Image File Version* for more details.
- **2. Step:** Setup a serial link (**RS232 Serial Link**) between the DIL/NetPC DNP/5280 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/5280 and the PC COM port. For more details about this connection please use the DIL/NetPC DNP/5280 Starter Kit documentation.
- **3. Step:** Set the RCM jumper bridge of your DIL/NetPC DNP/5280 to boot the Motorola dBUG ROM Monitor program. For more details about this jumper bridge please use the DIL/NetPC DNP/5280 Starter Kit documentation.
- **4. Step:** Run your terminal emulation program. Microsoft Windows-based PC systems offer *HyperTerminal* for this task. Linux-based systems come with *Minicom*. Then provide the DIL/NetPC DNP/5280 with power and enter the commands:

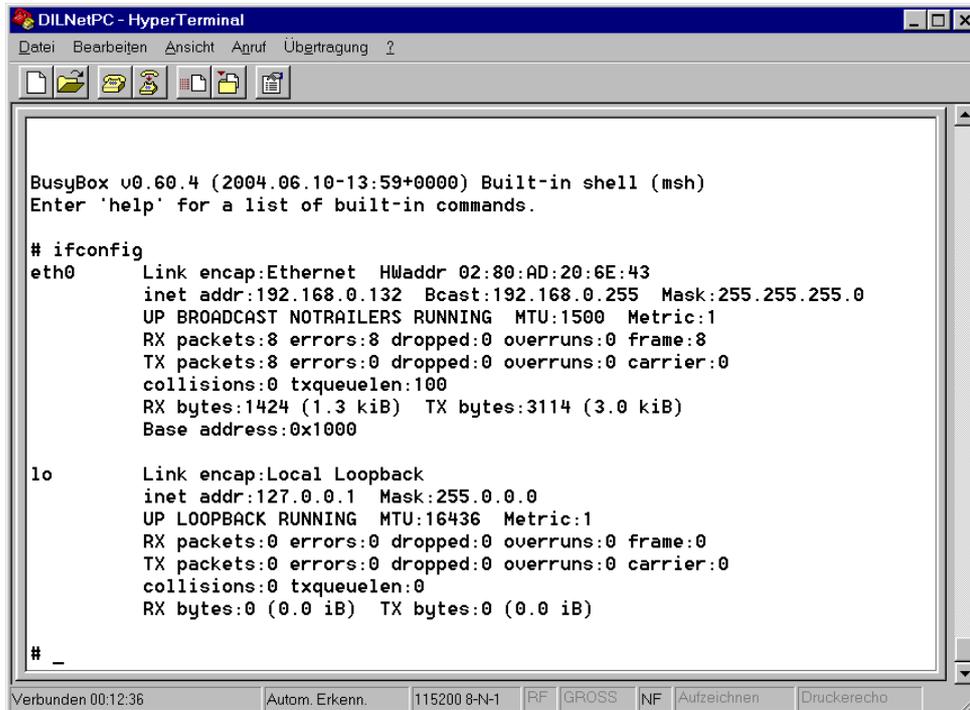
```
set client 0.0.0.0
set netmask 0.0.0.0
set gateway 0.0.0.0
show
```



```
DILNetPC - HyperTerminal
Datei Bearbeiten Ansicht Anruf Übertragung ?
External Reset
ColdFire MCF5282 on the DNP/5280-3U - RCMCFG1
Firmware v3b.1a.10 (Build 7 on Jul 13 2004 11:22:22)
Copyright 1995-2003 Motorola, Inc. All Rights Reserved.
SSU Embedded Systems GmbH
Enter 'help' for help.
dBUG> set client 0.0.0.0
dBUG> set netmask 0.0.0.0
dBUG> set gateway 0.0.0.0
dBUG> show
base: 16
baud: 115200
server: 192.168.0.1
client: 0.0.0.0
gateway: 0.0.0.0
netmask: 0.0.0.0
filename: image.bin
filetype: Image
ethaddr: 02:80:AD:20:6E:43
watchdog: off
dBUG> _
Verbunden 00:01:24 Autom. Erkenn. 115200 8-N-1 RF GROSS NF Aufzeichnen Druckerecho
```

- **5. Step:** Remove the power and the RCM jumper bridge. Then supply the DIL/NetPC DNP/5280 again with power for booting Linux. Enter the Linux command:

```
ifconfig
```



```
DILNetPC - HyperTerminal
Datei Bearbeiten Ansicht Agruf Übertragung ?

BusyBox v0.60.4 (2004.06.10-13:59+0000) Built-in shell (msh)
Enter 'help' for a list of built-in commands.

# ifconfig
eth0      Link encap:Ethernet  HWaddr 02:80:AD:20:6E:43
          inet addr:192.168.0.132  Bcast:192.168.0.255  Mask:255.255.255.0
          UP BROADCAST NOTRAILERS RUNNING MTU:1500 Metric:1
          RX packets:8 errors:8 dropped:0 overruns:0 frame:8
          TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:100
          RX bytes:1424 (1.3 kiB)  TX bytes:3114 (3.0 kiB)
          Base address:0x1000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          UP LOOPBACK RUNNING MTU:16436 Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:0 (0.0 iB)  TX bytes:0 (0.0 iB)

# _
```

**Please note:** If the DIL/NetPC DNP/5280 Linux Device Server can't find a DHCP server or can't receive an IP address from a DHCP server, the Ethernet LAN interface is not initialised after the Linux boot.

That is all.