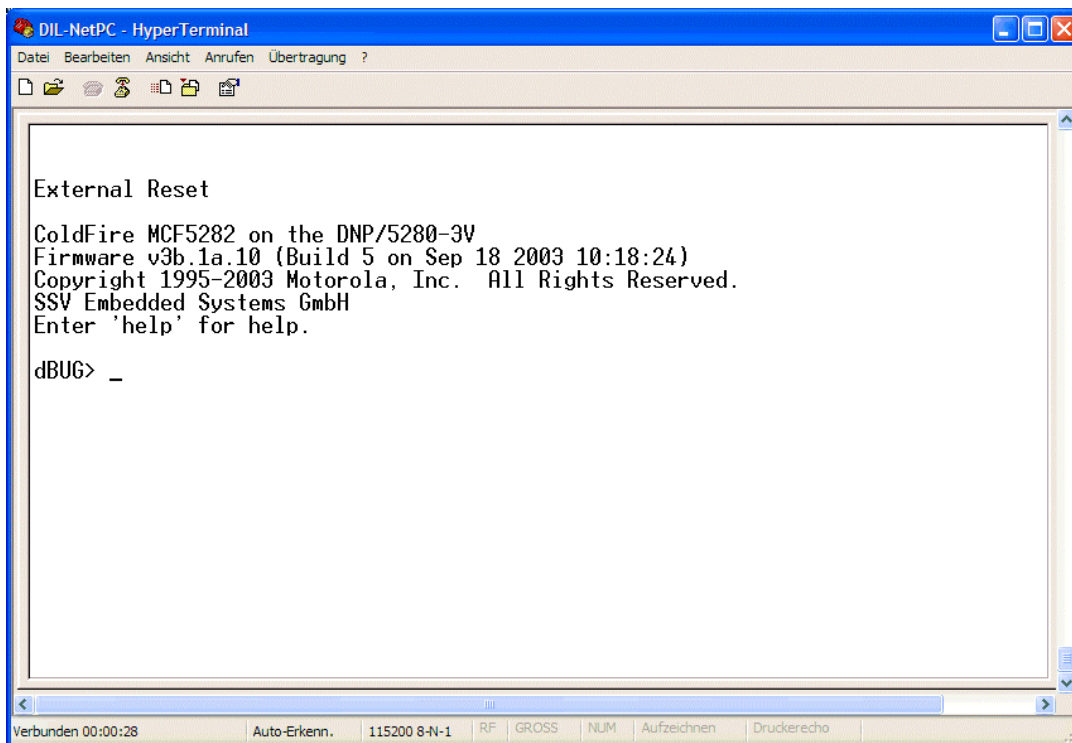


How to set the IP Address for the DNP/5280 TCP/IP Protocol Stack

The DIL/NetPC DNP/5280 offers a simple way for set-up a new IP address and other TCP/IP parameters to the flash configuration space.

- **1. Step:** Set-up a serial link (**RS232 Serial Link**) between the DNP/5280 COM1 serial port and one serial port of your PC system. Use a null-modem cable for the physical connection between the DNP/5280 COM1 port and the PC COM port.
- **2. Step:** Run your terminal emulation program. Microsoft Windows-based PC systems offers *HyperTerminal* for this task. Linux-based systems comes with *Minicom*.
- **3. Step:** Set-up the communication parameters for the terminal emulation program to 115.200 bps, 8 data bits, 1 stop bit, no parity bit and no handshaking (**115.200-8-N-1**).
- **4. Step:** Set the RCM jumper of the DNP/5280 for booting the *Motorola dBUG* monitor program direct from the on-board flash memory. Then power-up the DNP/5280.

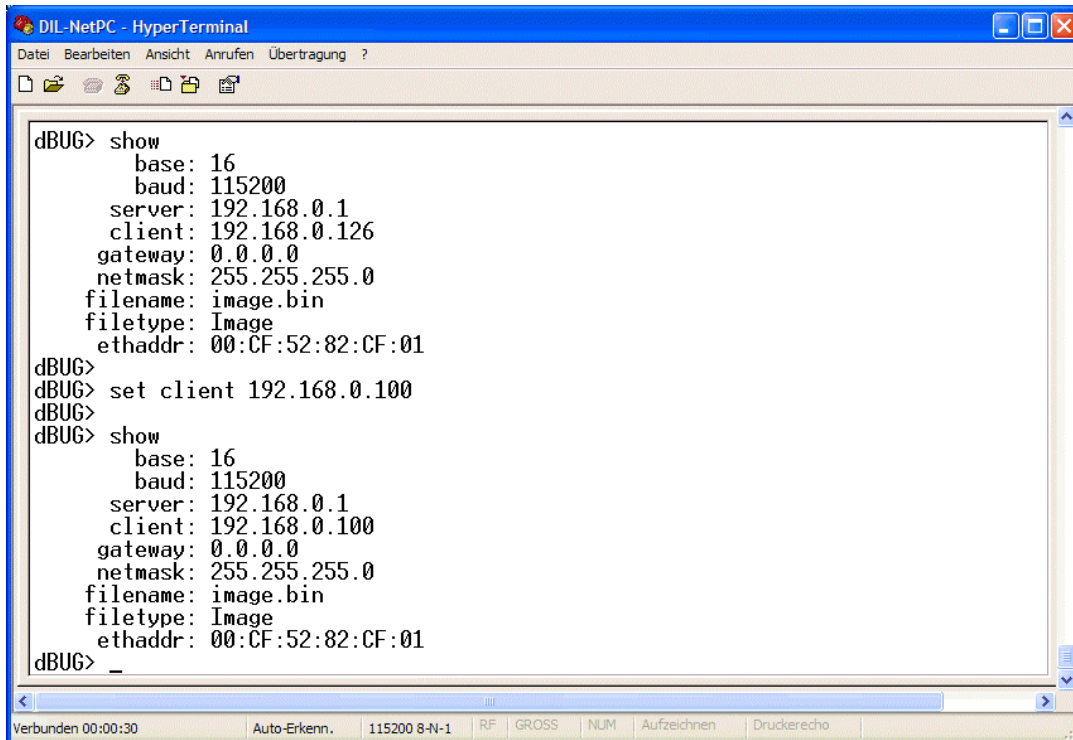


```
DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
External Reset
ColdFire MCF5282 on the DNP/5280-3V
Firmware v3b.1a.10 (Build 5 on Sep 18 2003 10:18:24)
Copyright 1995-2003 Motorola, Inc. All Rights Reserved.
SSV Embedded Systems GmbH
Enter 'help' for help.

dBUG> _
```

Verbinden 00:00:28 Auto-Erkenn. 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckercho

- **5. Step:** Enter the command **show** and the *Motorola dBUG* monitor program shows the current set-up direct from the flash configuration space.
- **6. Step:** Enter the command **set client 192.168.0.100** and the *Motorola dBUG* monitor program sets the new IP address 192.168.0.100 into the flash configuration space. Linux will use this IP address direct after the next boot without the RCM jumper.



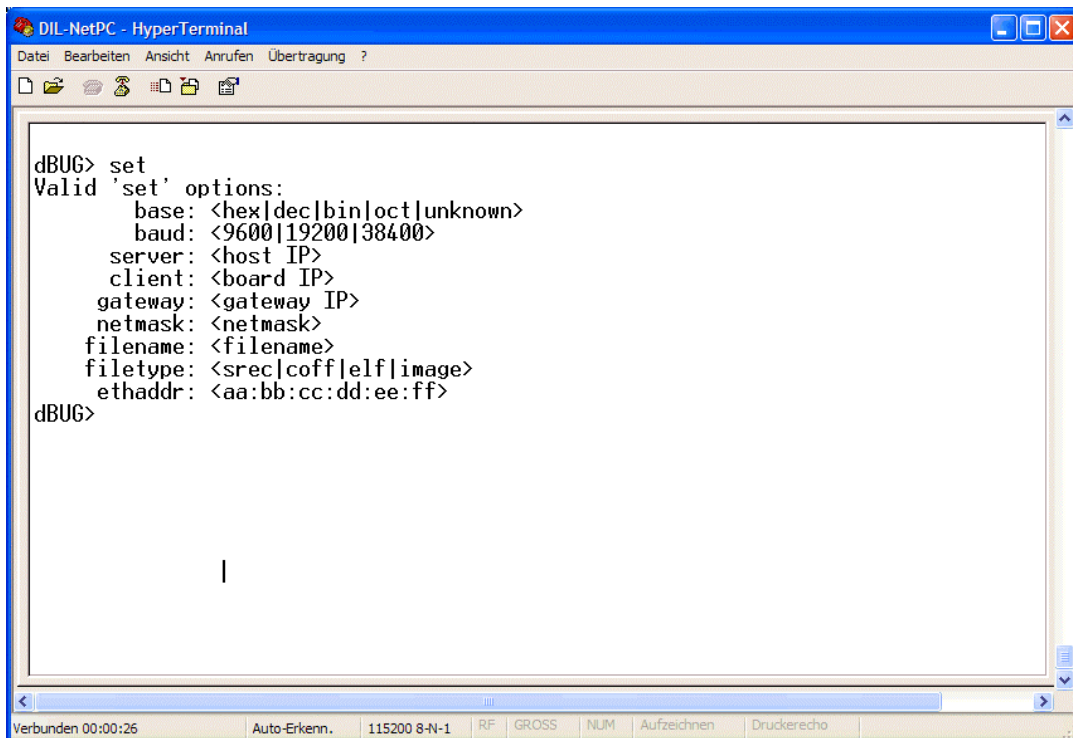
```

DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
dBUG> show
    base: 16
    baud: 115200
    server: 192.168.0.1
    client: 192.168.0.126
    gateway: 0.0.0.0
    netmask: 255.255.255.0
    filename: image.bin
    filetype: Image
    ethaddr: 00:CF:52:82:CF:01
dBUG>
dBUG> set client 192.168.0.100
dBUG>
dBUG> show
    base: 16
    baud: 115200
    server: 192.168.0.1
    client: 192.168.0.100
    gateway: 0.0.0.0
    netmask: 255.255.255.0
    filename: image.bin
    filetype: Image
    ethaddr: 00:CF:52:82:CF:01
dBUG> _

```

Use your IP address instead of 192.168.0.100. In some cases it will be necessary to change the netmask (**set netmask aaa.bbb.ccc.ddd**) also.

- **7. Step:** Enter the command **set** without any parameters and the *Motorola dBUG* monitor program shows the syntax for all set command options.

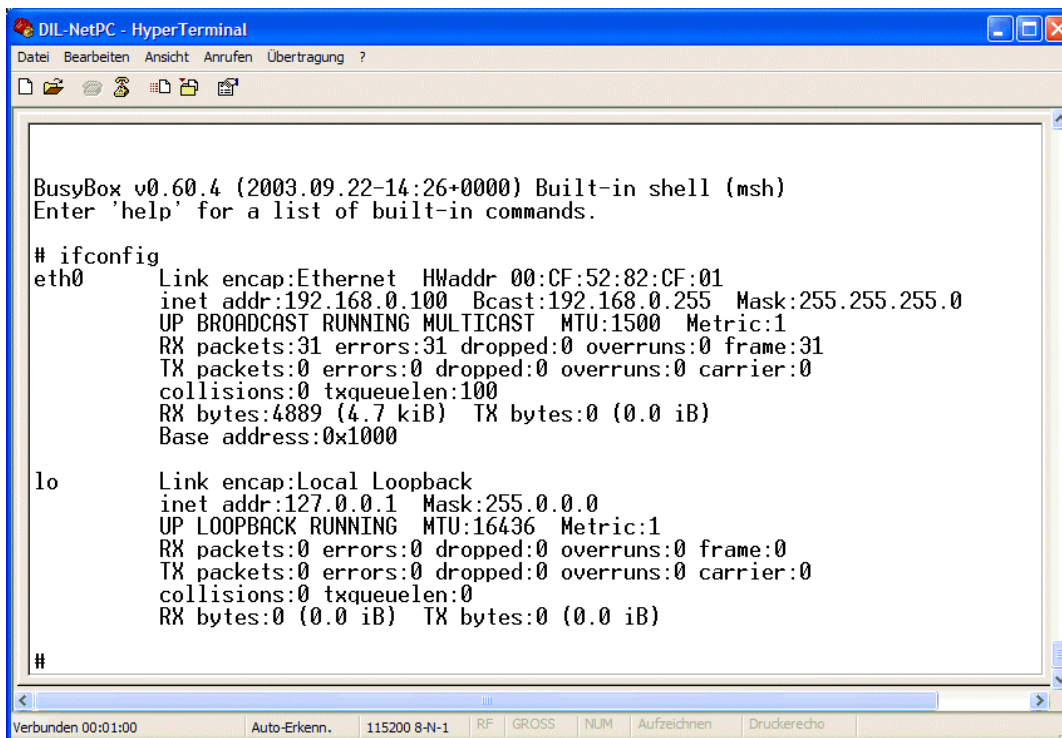


```

DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
dBUG> set
Valid 'set' options:
    base: <hex|dec|bin|oct|unknown>
    baud: <9600|19200|38400>
    server: <host IP>
    client: <board IP>
    gateway: <gateway IP>
    netmask: <netmask>
    filename: <filename>
    filetype: <src|coff|elf|image>
    ethaddr: <aa:bb:cc:dd:ee:ff>
dBUG>

```

- **8. Step:** Re-boot the DNP/5280 without the RCM jumper. Check the IP address from Linux with the `ifconfig` command.



```
DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
BusyBox v0.60.4 (2003.09.22-14:26+0000) Built-in shell (msh)
Enter 'help' for a list of built-in commands.
# ifconfig
eth0      Link encap:Ethernet  HWaddr 00:CF:52:82:CF:01
          inet addr:192.168.0.100  Bcast:192.168.0.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:31 errors:31 dropped:0 overruns:0 frame:31
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:100
          RX bytes:4889 (4.7 kiB)  TX bytes:0 (0.0 iB)
          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)

#
```

Verbunden 00:01:00 Auto-Erkenn. 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckerecho

That is all.