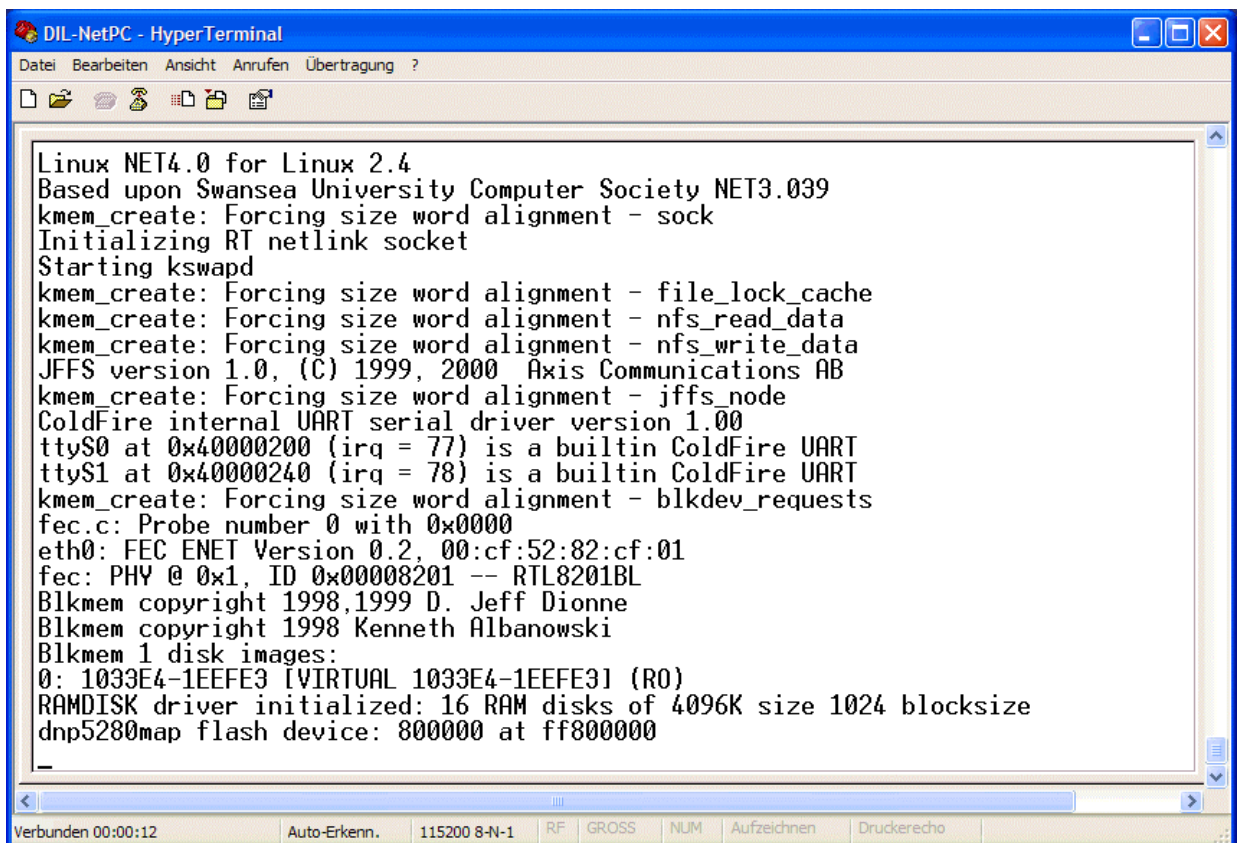


How to use the PNP/5280 Serial Command Interface

The DIL/NetPC PNP/5280 offers a way for simple user command entry over a standard terminal emulation program.

- **1. Step:** Set-up a serial link (**RS232 Serial Link**) between the PNP/5280 COM1 serial port and one serial port of your PC system. Use a null-modem cable for the physical connection between the PNP/5280 evaluation board 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:** Remove the RCM jumper of the PNP/5280 for booting the Linux operation system direct from the on-board flash memory. Then power-up the PNP/5280 for booting Linux. Watch the booting process with the terminal emulation program.

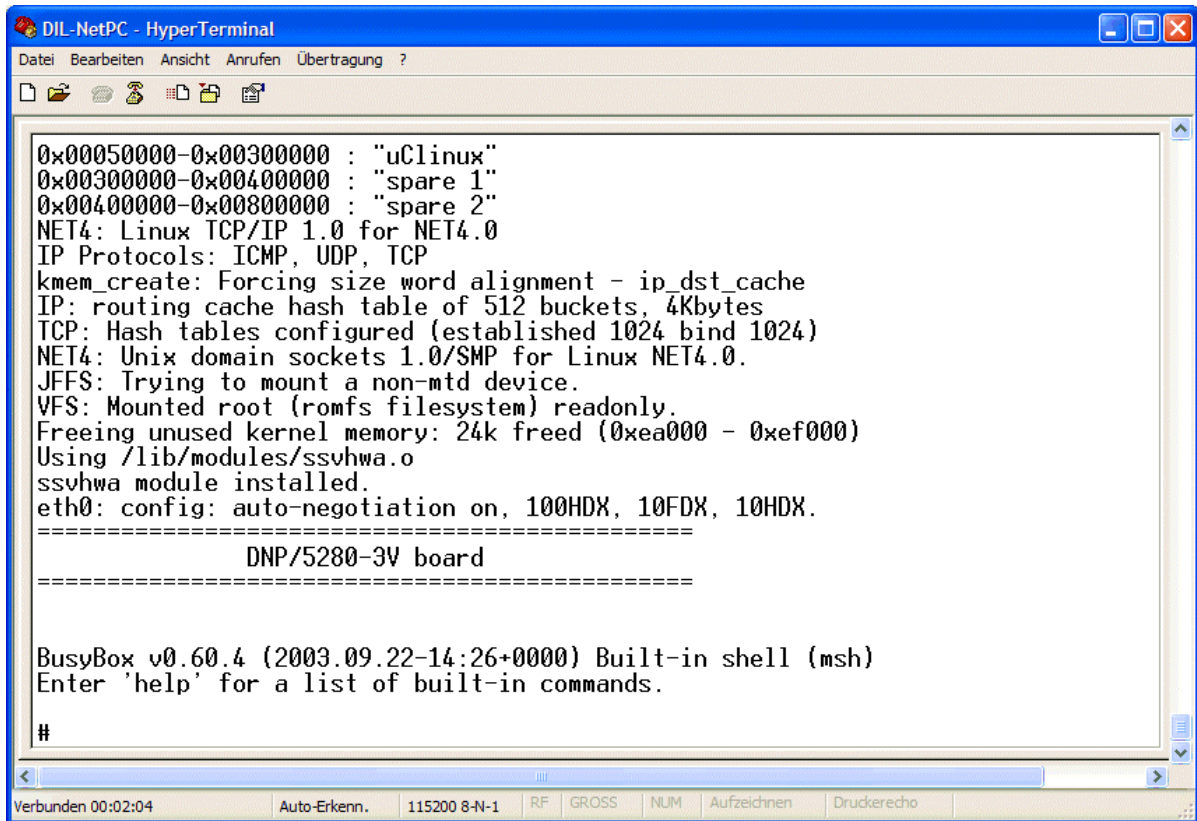


```

DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
Linux NET4.0 for Linux 2.4
Based upon Swansea University Computer Society NET3.039
kmem_create: Forcing size word alignment - sock
Initializing RT netlink socket
Starting kswapd
kmem_create: Forcing size word alignment - file_lock_cache
kmem_create: Forcing size word alignment - nfs_read_data
kmem_create: Forcing size word alignment - nfs_write_data
JFFS version 1.0, (C) 1999, 2000 Axis Communications AB
kmem_create: Forcing size word alignment - jffs_node
ColdFire internal UART serial driver version 1.00
ttyS0 at 0x40000200 (irq = 77) is a builtin ColdFire UART
ttyS1 at 0x40000240 (irq = 78) is a builtin ColdFire UART
kmem_create: Forcing size word alignment - blkdev_requests
fec.c: Probe number 0 with 0x0000
eth0: FEC ENET Version 0.2, 00:cf:52:82:cf:01
fec: PHY @ 0x1, ID 0x00008201 -- RTL8201BL
Blkmem copyright 1998,1999 D. Jeff Dionne
Blkmem copyright 1998 Kenneth Albanowski
Blkmem 1 disk images:
0: 1033E4-1EEFE3 [VIRTUAL 1033E4-1EEFE3] (RO)
RAMDISK driver initialized: 16 RAM disks of 4096K size 1024 blocksize
dnp5280map flash device: 800000 at ff800000
_
Verbunden 00:00:12 Auto-Erkenn. 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckercho

```

- **5. Step:** The PNP/5280 Linux **don't** need a user login with user name and password. Please enter your Linux commands direct after the boot process.



```
DIL-NetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
0x00050000-0x00300000 : "uClinux"
0x00300000-0x00400000 : "spare 1"
0x00400000-0x00800000 : "spare 2"
NET4: Linux TCP/IP 1.0 for NET4.0
IP Protocols: ICMP, UDP, TCP
kmem_create: Forcing size word alignment - ip_dst_cache
IP: routing cache hash table of 512 buckets, 4Kbytes
TCP: Hash tables configured (established 1024 bind 1024)
NET4: Unix domain sockets 1.0/SMP for Linux NET4.0.
JFFS: Trying to mount a non-mtd device.
VFS: Mounted root (romfs filesystem) readonly.
Freeing unused kernel memory: 24k freed (0xea000 - 0xef000)
Using /lib/modules/ssvhw.a
ssvhw module installed.
eth0: config: auto-negotiation on, 100HDX, 10FDX, 10HDX.
=====
DNP/5280-3V board
=====

BusyBox v0.60.4 (2003.09.22-14:26+0000) Built-in shell (msh)
Enter 'help' for a list of built-in commands.

#
```

Verbunden 00:02:04 Auto-Erkenn. 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckerecho

Please note: The DIL/NetPCs PNP/5280 and DNP/5280 are software compatible. Only the mechanical form factor and the pin out is different. The Linux operating system of these two systems is absolute identical.

That is all.