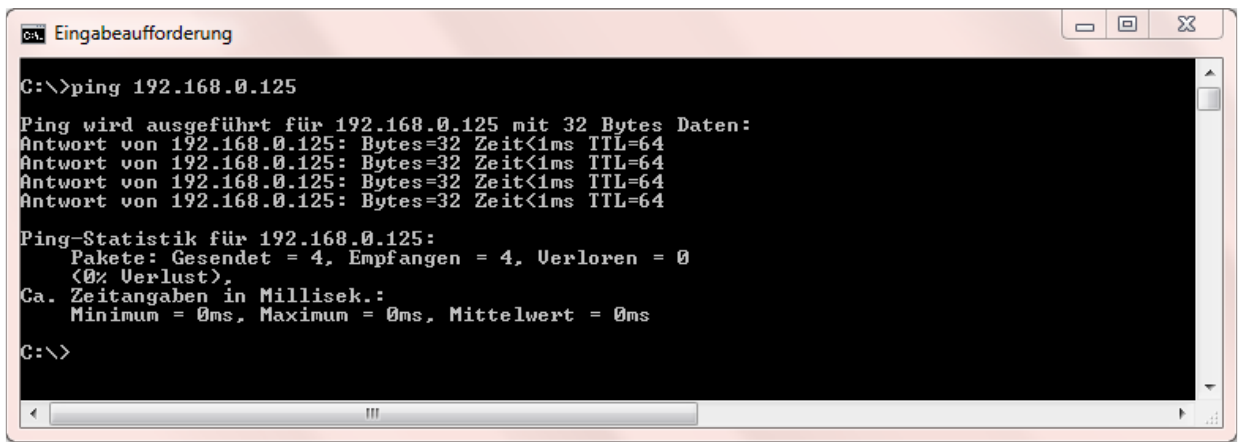


How to use a Windows 7-based PC

If your host PC runs Windows 7 you have to solve some special configuration and installation problems. A standard Windows 7 PC installation doesn't allow to *ping* the DIL/NetPC DNP/2486 over the Ethernet connection. Windows 7 also doesn't support *Telnet* sessions.

- **1. Step:** Before your first *ping* (see also 2.8 *Checking Ethernet-based TCP/IP Communication* of the *DNP/SK29 Embedded Linux Starter Kit First Steps* user manual) from the PC to the DIL/NetPC DNP/9265 please go to the Windows 7 firewall setup (see setup item *Windows Firewall with Advanced Security*). Then change the **Inbound Rules** and **Outbound Rules** for **ICMP** (Enable inbound and outbound ICMP traffic for IPv4).



```

C:\>ping 192.168.0.125

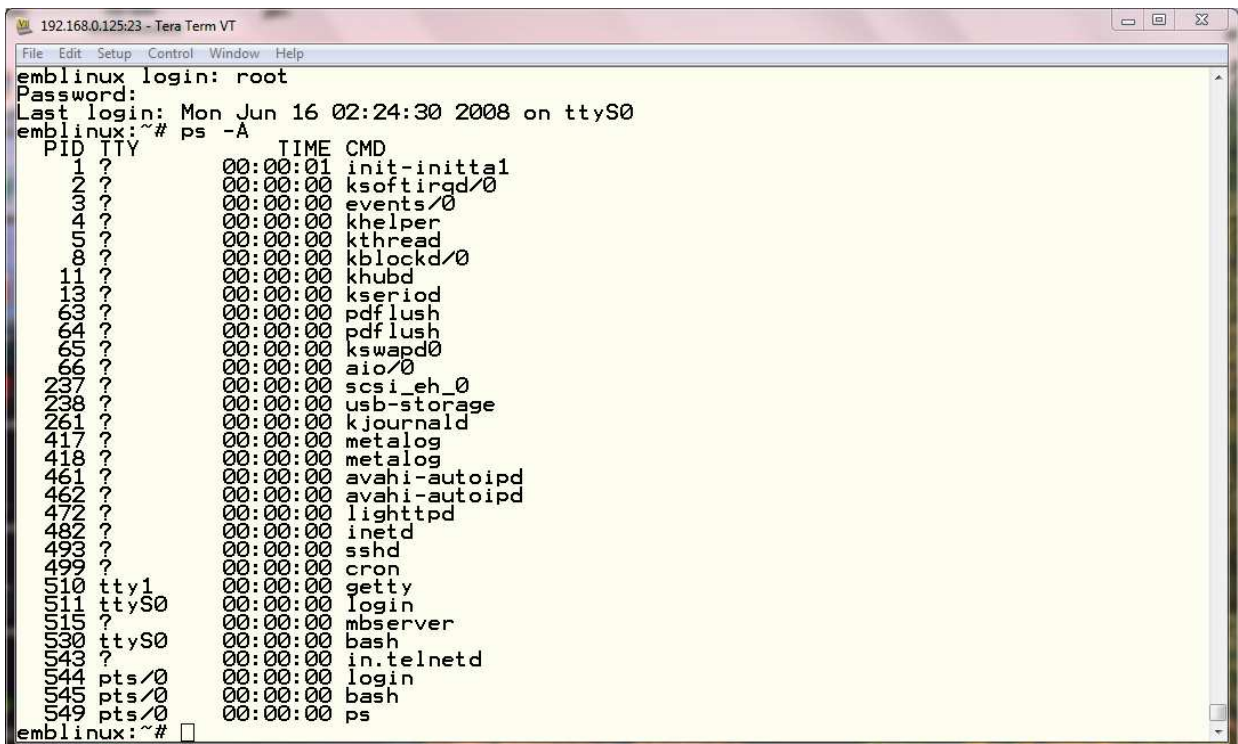
Ping wird ausgeführt für 192.168.0.125 mit 32 Bytes Daten:
Antwort von 192.168.0.125: Bytes=32 Zeit<1ms TTL=64
Antwort von 192.168.0.125: Bytes=32 Zeit<1ms TTL=64
Antwort von 192.168.0.125: Bytes=32 Zeit<1ms TTL=64
Antwort von 192.168.0.125: Bytes=32 Zeit<1ms TTL=64

Ping-Statistik für 192.168.0.125:
    Pakete: Gesendet = 4, Empfangen = 4, Verloren = 0
    (0% Verlust),
    Ca. Zeitangaben in Millisek.:
        Minimum = 0ms, Maximum = 0ms, Mittelwert = 0ms

C:\>

```

- **2. Step:** The standard Windows 7 configuration comes without a *Telnet* client program. Please download the free tool *TeraTerm* from <http://tssh2.sourceforge.jp> or any other download location. Then install *TeraTerm* on your Windows 7 machine. After that please run *TeraTerm* as a *Telnet* client in VT100 mode (see *TeraTerm Terminal setup – Terminal ID*).



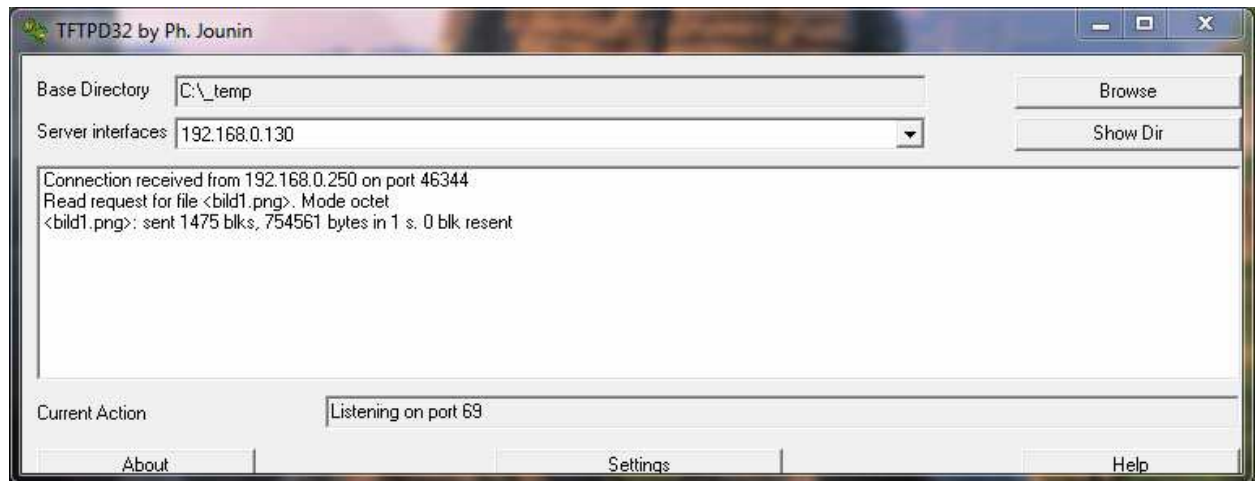
```

192.168.0.125:23 - Tera Term VT
File Edit Setup Control Window Help
emblinux login: root
Password:
Last login: Mon Jun 16 02:24:30 2008 on ttyS0
emblinux:~# ps -A
  PID TTY          TIME CMD
    1 ?            00:00:01 init-inittal
    2 ?            00:00:00 ksoftirqd/0
    3 ?            00:00:00 events/0
    4 ?            00:00:00 khelper
    5 ?            00:00:00 kthread
    8 ?            00:00:00 kblockd/0
   11 ?            00:00:00 khubd
   13 ?            00:00:00 kseriod
   63 ?            00:00:00 pdflush
   64 ?            00:00:00 pdflush
   65 ?            00:00:00 kswapd0
   66 ?            00:00:00 aio/0
  237 ?            00:00:00 scsi_eh_0
  238 ?            00:00:00 usb-storage
  261 ?            00:00:00 kjournald
  417 ?            00:00:00 metalog
  418 ?            00:00:00 metalog
  461 ?            00:00:00 avahi-autoipd
  462 ?            00:00:00 avahi-autoipd
  472 ?            00:00:00 lighttpd
  482 ?            00:00:00 inetd
  493 ?            00:00:00 sshd
  499 ?            00:00:00 cron
  510 tty1          00:00:00 getty
  511 ttyS0         00:00:00 login
  515 ?            00:00:00 mbserver
  530 ttyS0         00:00:00 bash
  543 ?            00:00:00 in.telnetd
  544 pts/0         00:00:00 login
  545 pts/0         00:00:00 bash
  549 pts/0         00:00:00 ps
emblinux:~#

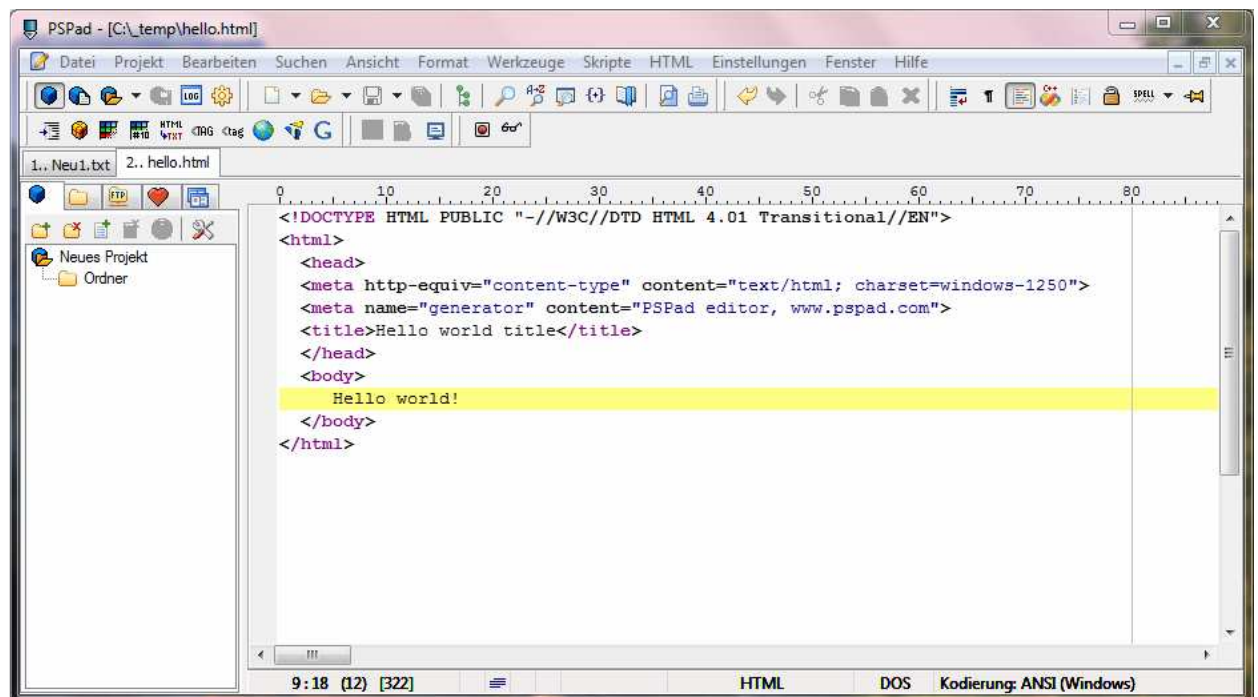
```

The standard Windows 7 configuration doesn't allow any *Telnet* traffic. Please go again to the Windows 7 firewall setup (see setup item *Windows Firewall with Advanced Security*). Then create a new outbound rule for the TCP protocol and port 23 (Enable the usage of TCP port 23).

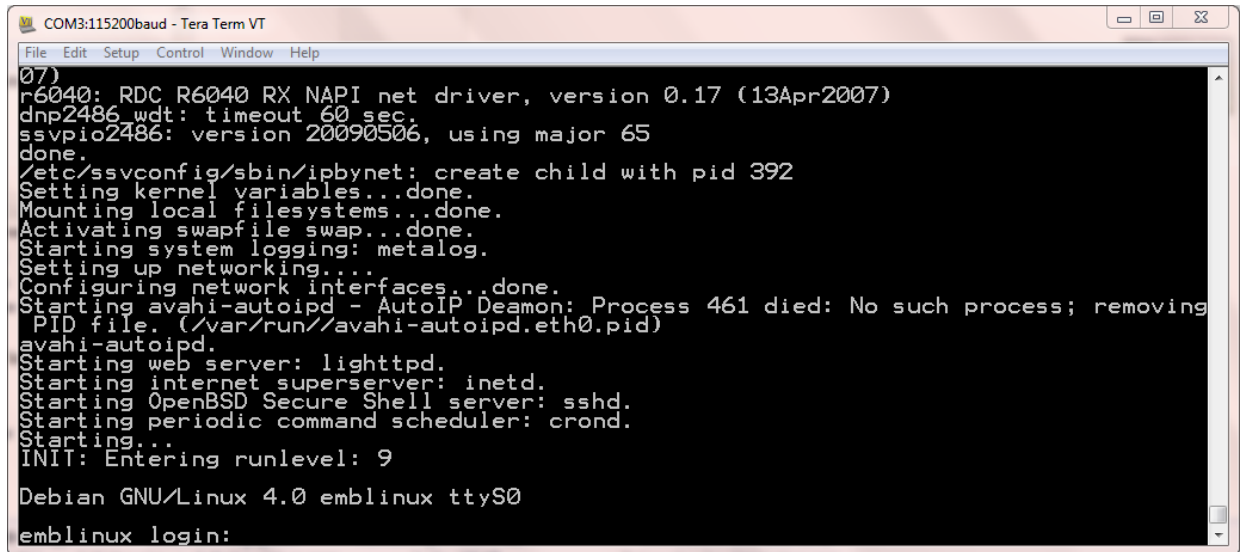
- **3. Step:** For file downloads and uploads between the PC to the DIL/NetPC DNP/2486 please use TFTP. The first one the two DNP/2486 starter kit CD-ROMs offers the TFTP32 server for Windows PC (please see CD-ROM directory *TFTP-Server-Win32*). This server works also with Windows 7.



- **4. Step:** For editing HTML files on your Windows 7-based PC please use the free *PSPad* editor.



- **5. Step:** Windows 7 comes without the *HyperTerminal* terminal emulation program. This well-known program was a part of older Windows version. It is possible to use *TeraTerm* also as a terminal emulation program over RS232-based links. Please run *TeraTerm* in the serial port mode. Then choose the RS232 COM port instead of *Telnet* and set this port to 115.200/N/8/1.



```
COM3:115200baud - Tera Term VT
File Edit Setup Control Window Help
07)
r6040: RDC R6040 RX NAPI net driver, version 0.17 (13Apr2007)
dnp2486_wdt: timeout 60 sec.
ssvpio2486: version 20090506, using major 65
done.
/etc/ssvconfig/sbin/ipbynet: create child with pid 392
Setting kernel variables...done.
Mounting local filesystems...done.
Activating swapfile swap...done.
Starting system logging: metalog.
Setting up networking...
Configuring network interfaces...done.
Starting avahi-autoipd - AutoIP Deamon: Process 461 died: No such process; removing
PID file. (/var/run//avahi-autoipd.eth0.pid)
avahi-autoipd.
Starting web server: lighttpd.
Starting internet superserver: inetd.
Starting OpenBSD Secure Shell server: sshd.
Starting periodic command scheduler: crond.
Starting...
INIT: Entering runlevel: 9
Debian GNU/Linux 4.0 emlinux ttyS0
emlinux login:
```

Please note: *HyperTerminal* for the Microsoft Windows 7 O/S is available. Please visit the web site <http://www.hilgraeve.com/hyperterminal/> for more information.

That's all.