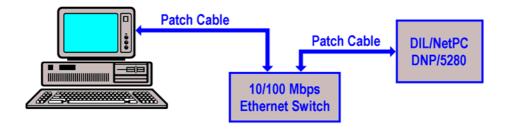


How to download a new Linux O/S Image to the DNP/5280 Flash

The DIL/NetPC DNP/5280 comes with a simple ROM monitor program called *dBUG*. This program allows you to download a new Linux O/S image file over an Ethernet-based TCP/IP connection from a Host to the DNP/5280 flash memory. The download needs a TFTP server program for the Host.

The ROM monitor *dBUG* provides a command line user interface (CLI). This interface is normally available on serial port COM1 when the RCM jumper is closed.

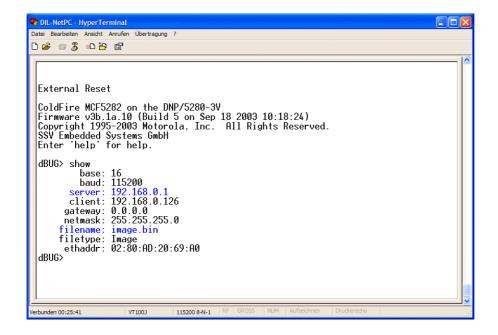
• 1. Step: Setup a Ethernet connection with a 10/100 Mbps switch and Ethernet patch cables between the DIL/NetPC DNP/5280 and your PC. The dBUG TFTP download don't work proper with an Ethernet cross-over LAN cable and the Ethernet 10/100 Mbps Auto-Negotiation mode.



• **1. Step**: Power-up your DNP/5280 with the RCM jumper closed. The DNP/5280 runs *dBUG* directly after the reset. Enter the *dBUG* command

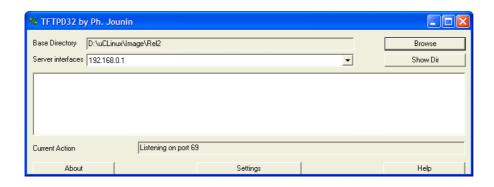
show

and check the setup for the TFTP server IP address (default: 192.168.0.1) and the name of the Linux O/S image file (default: image.bin). Change these parameters if necessary.





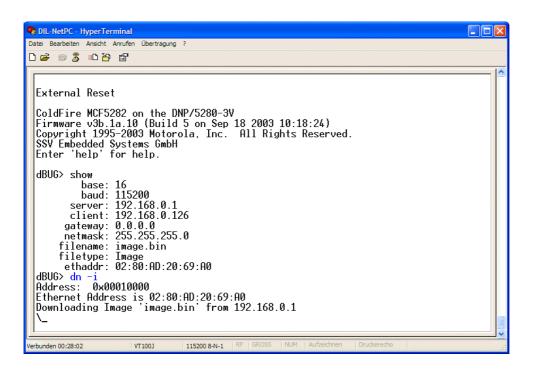
• **2. Step**: Run a TFTP server on your Host (e.g. your Windows-based PC). Make sure that the TFTP server has access to the Linux O/S image file.



• 3. Step: Now we can start to download the Linux O/S image file. Enter the dBUG command

dn -i

to start the download. Wait until the download finish's. The download needs some time. Please wait.



• **4. Step**: After the TFTP-based download the new Linux O/S image file is located within the DNP/5280 RAM. Enter the *dBUG* command

fl w 0xff850000 0x10000 0x200000

to move the Linux O/S image file from RAM to flash. This operation needs some time. Please wait.



Remove the power supply from your DNP/5280 after the execution of the £1 command. Then remove the RCM jumper and re-boot your DNP/5280 to run the new Linux O/S image.

Please note: dBUG cannot communicate with TFTP servers on different subnets because dBUG doesn't support routing. This means that the DNP/5280 and the TFTP server must be on the same subnet.

That is all.