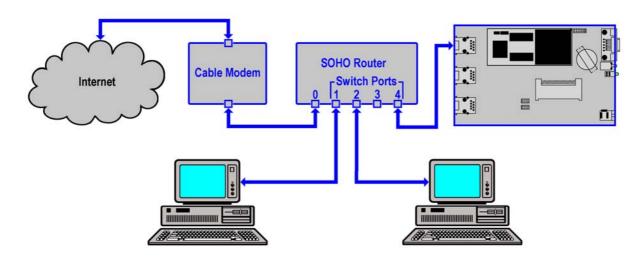


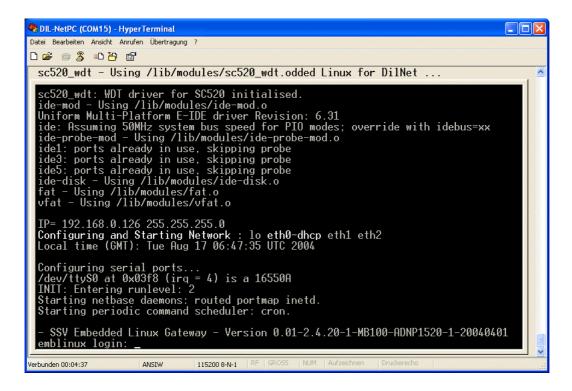
## How to connect the Application Board MB/1520-100 to the Internet

The Application Board MB/1520-100 is prepared for a connection to the Internet. The easiest way is a broadband-based Internet integration (i.e. ADSL or similar).

• **1. Step:** Setup an infrastructure for the Internet integration. The following picture shows a sample for a small office environment. A cable modem and a SOHO router builds the base. The SOHO router runs a DHCP server to deliver IP addresses to the networks members if requested.



• 2. Step: The LAN1 interface (eth0) of the Application Board MB/1520-100 supports DHCPbased IP address assignment. This is a build-in feature of the Embedded Gateway Linux.



• **3. Step:** Check the MB/1520-100 Internet connection. The following picture shows a sample. First we display the given IP address for LAN1 (eth0) with an *ifconfig* command. Then we



check the connection with a *ping* command. The Embedded Gateway Linux supports DNS. You can use a *ping* with a DNS name instead of an IP address.

🗞 DIL-NetPC (COM15) - HyperTerminal	
Datei Bearbeiten Ansicht Anrufen Übertragung ?	
emblinux login: rootntries:	
BusyBox v0.60.1 (2001.09.28-09:44+0000) Built-in shell (ash) Enter 'help' for a list of built-in commands. # ifconfig eth0 eth0 Link encap:Ethernet HWaddr 02:80:AD:20:4D:24 inet addr:192.168.2.4 Bcast:192.168.2.255 Mask:255.255.255.0 UP BROADCAST NOTRAILERS RUNNING MTU:1500 Metric:1 RX packets:2 errors:0 dropped:0 overruns:0 frame:0 TX packets:5 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:100 RX bytes:0 (0.0 b) TX bytes:0 (0.0 b) Interrupt:9 Base address:0x300	
<pre># ping dilnetpc.com PING dilnetpc.com (212.227.224.85): 56 data bytes 64 bytes from 212.227.224.85: icmp_seq=0 ttl=57 time=60.5 ms 64 bytes from 212.227.224.85: icmp_seq=1 ttl=57 time=61.6 ms  dilnetpc.com ping statistics 2 packets transmitted, 2 packets received, 0% packet loss round-trip min/avg/max = 60.5/61.0/61.6 ms # _</pre>	
Verbunden 00:10:33 ANSIW 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckerecho	.:

**Please note:** In every boot phase the MB/1520-100 Embedded Gateway Linux tries to get an IP address from a DHCP server. If no server is available, a timeout occurs. In this case, a static IP address is assigned to the LAN1 (eth0) port.

🗞 DIL-NetPC (COM15) - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
/ 4
<pre>ide: Assuming 50MHz system bus speed for PIO modes; override with idebus=xx ide-probe-mod - Using /lib/modules/ide-probe-mod.o ide1: ports already in use, skipping probe ide3: ports already in use, skipping probe ide5: ports already in use, skipping probe ide-disk - Using /lib/modules/ide-disk.o fat - Using /lib/modules/fat.o vfat - Using /lib/modules/vfat.o</pre>
IP= 192.168.0.126 255.255.255.0 Configuring and Starting Network : lo dhcpcd[103]: timed out waiting for a valid DHCP server response
eth0 eth1 eth2 Local time (GMT): Tue Aug 17 07:00:44 UTC 2004
Configuring serial ports /dev/ttyS0 at 0x03f8 (irg = 4) is a 16550A INIT: Entering runlevel: 2 Starting netbase daemons: routed portmap inetd. Starting periodic command scheduler: cron.
- SSV Embedded Linux Gateway - Version 0.01-2.4.20-1-MB100-ADNP1520-1-20040401 emblinux login:
Verbunden 00:21:20 ANSIW 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckerecho

That is all.