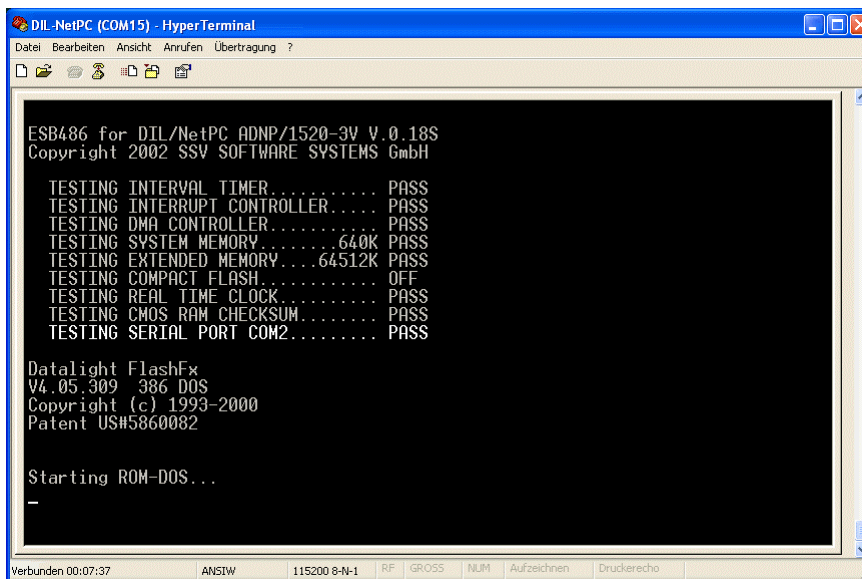


How to use the ADNP/1520 COM2 Port

The AMD SC520 Microcontroller of a DIL/NetPC ADNP/1520 offers two internal serial (COM) ports (UARTs). The ADNP/1520 default BIOS don't support the second COM port (COM2). To enable the COM2 BIOS support for a ADNP/1520, it is necessary to use the right BIOS file version (for example **ADNP018S.EXE**).

- **1. Step:** With the right BIOS file version the ADNP/1520 BIOS initializes the COM2 interface during the boot process (see BIOS message: **TESTING SERIAL PORT COM2 ... PASS**). For change the ADNP/1520 BIOS, please see the document: *mHT1520A-05.pdf: How to use CompactFlash Cards from ROM-DOS*.



```

DIL-NetPC (COM15) - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
ESB486 For DIL/NetPC ADNP/1520-3V V.0.18S
Copyright 2002 SSV SOFTWARE SYSTEMS GmbH

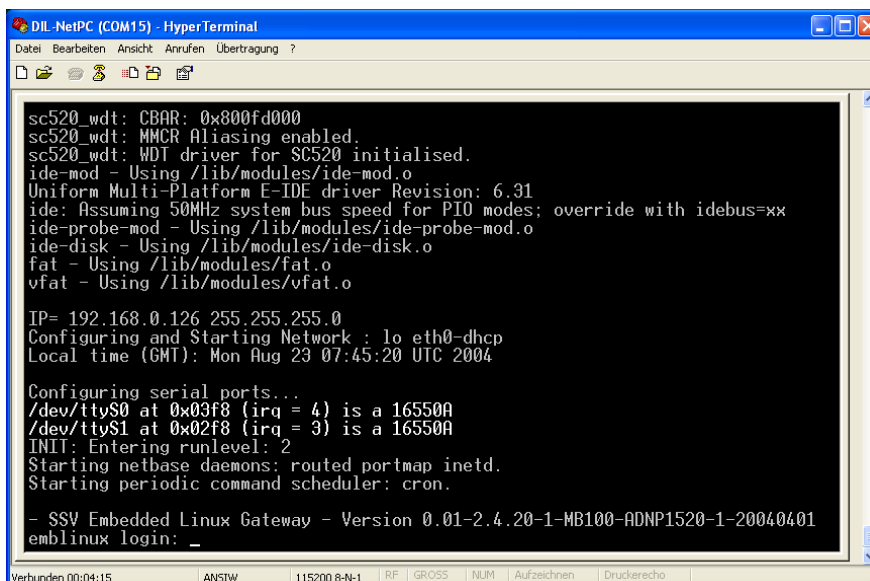
  TESTING INTERVAL TIMER..... PASS
  TESTING INTERRUPT CONTROLLER.... PASS
  TESTING DMA CONTROLLER..... PASS
  TESTING SYSTEM MEMORY.....640K PASS
  TESTING EXTENDED MEMORY...64512K PASS
  TESTING COMPACT FLASH..... OFF
  TESTING REAL TIME CLOCK..... PASS
  TESTING CMOS RAW CHECKSUM..... PASS
  TESTING SERIAL PORT COM2..... PASS

Datalight FlashFv
V4.05.309 386 DOS
Copyright (c) 1993-2000
Patent US#5860082

Starting ROM-DOS...
_
Verbunden 00:07:37 ANSIW 115200 8-N-1 RF | GROSS | NUM | Aufzeichnen | Druckerecho

```

- **2. Step:** The ADNP/1520 Linux finds the second COM port during the boot process and initializes two COM ports for Linux usages.



```

DIL-NetPC (COM15) - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
sc520_wdt: CBAR: 0x800fd000
sc520_wdt: MMCR Aliasing enabled.
sc520_wdt: WDT driver for SC520 initialised.
ide-mod - Using /lib/modules/ide-mod.o
Uniform Multi-Platform E-IDE driver Revision: 6.31
ide: Assuming 50MHz system bus speed for PIO modes; override with idebus=xx
ide-probe-mod - Using /lib/modules/ide-probe-mod.o
ide-disk - Using /lib/modules/ide-disk.o
fat - Using /lib/modules/fat.o
vfat - Using /lib/modules/vfat.o

IP= 192.168.0.126 255.255.255.0
Configuring and Starting Network : lo eth0-dhcp
Local time (GMT): Mon Aug 23 07:45:20 UTC 2004

Configuring serial ports...
/dev/ttyS0 at 0x03f8 (irq = 4) is a 16550A
/dev/ttyS1 at 0x02f8 (irq = 3) 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 00:04:15 ANSIW 115200 8-N-1 RF | GROSS | NUM | Aufzeichnen | Druckerecho

```

- **3. Step:** Use the Linux **setserial** command and change the interrupt for ttyS1 to irq11. The command line is:

```
setserial /dev/ttyS1 irq 11
```

Linux Name (Linux Device Name)	ADNP/1520 COM Port
ttyS0	COM1 (0x3f8, Interrupt= IRQ4)
ttyS1	COM2 (0x2f8, Interrupt= IRQ11)

That is all.