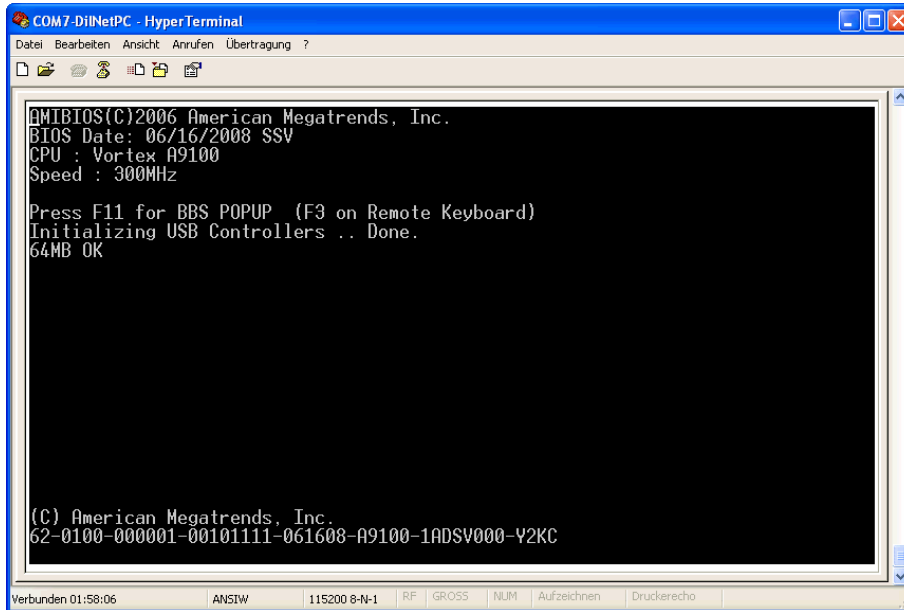


How to understand the DNP/2486 Boot Process with RCM enabled

Direct after power-up the DIL/NetPC DNP/2486 starts an automatic boot process from the on-board NAND flash memory chip. This process consists of two steps.

- **1. Step:** Directly after power-up, the DNP/2486 runs the AMI BIOS and initializes the hardware components. With **RCM enabled** (please see the *DIL/NetPC DNP/2486 Hardware Reference Manual* for details) the BIOS show some messages over the DNP/2486 COM1 serial port.



```

COM7-DilNetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
[Icons]
AMI BIOS(C)2006 American Megatrends, Inc.
BIOS Date: 06/16/2008 SSV
CPU : Vortex A9100
Speed : 300MHz

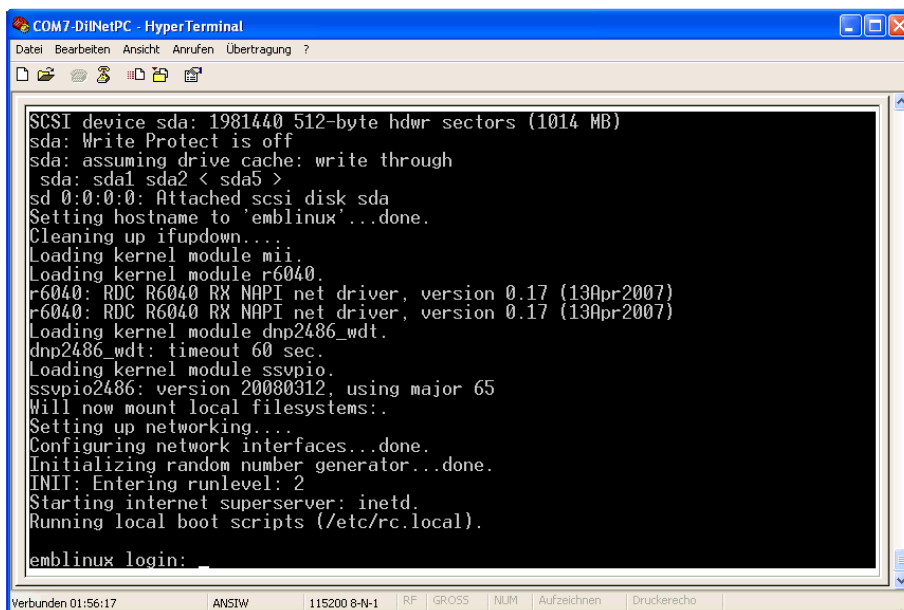
Press F11 for BBS POPUP (F3 on Remote Keyboard)
Initializing USB Controllers .. Done.
64MB OK

(C) American Megatrends, Inc.
62-0100-000001-00101111-061608-A9100-1ADSV000-Y2KC

Verbunden 01:58:06 ANSIW 115200 8-N-1 RF GROSS NUM Aufzeichnen Druckerecho

```

- **2. Step:** If the BIOS finish, the SYSLINUX boot loader starts a Linux O/S image. With RCM enabled, SYSLINUX show some messages over the DNP/2486 COM1 serial port.



```

COM7-DilNetPC - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
[Icons]
SCSI device sda: 1981440 512-byte hdwr sectors (1014 MB)
sda: Write Protect is off
sda: assuming drive cache: write through
sda: sda1 sda2 < sda5 >
sd 0:0:0:0: Attached scsi disk sda
Setting hostname to 'emblinux'...done.
Cleaning up ifupdown...
Loading kernel module mii.
Loading kernel module r6040.
r6040: RDC R6040 RX NAPI net driver, version 0.17 (13Apr2007)
r6040: RDC R6040 RX NAPI net driver, version 0.17 (13Apr2007)
Loading kernel module dnp2486_wdt.
dnp2486_wdt: timeout 60 sec.
Loading kernel module sspvio.
sspio2486: version 20080312, using major 65
Will now mount local filesystems:.
Setting up networking...
Configuring network interfaces...done.
Initializing random number generator...done.
INIT: Entering runlevel: 2
Starting internet superserver: inetd.
Running local boot scripts (/etc/rc.local).

emblinux login:

```

That is all.