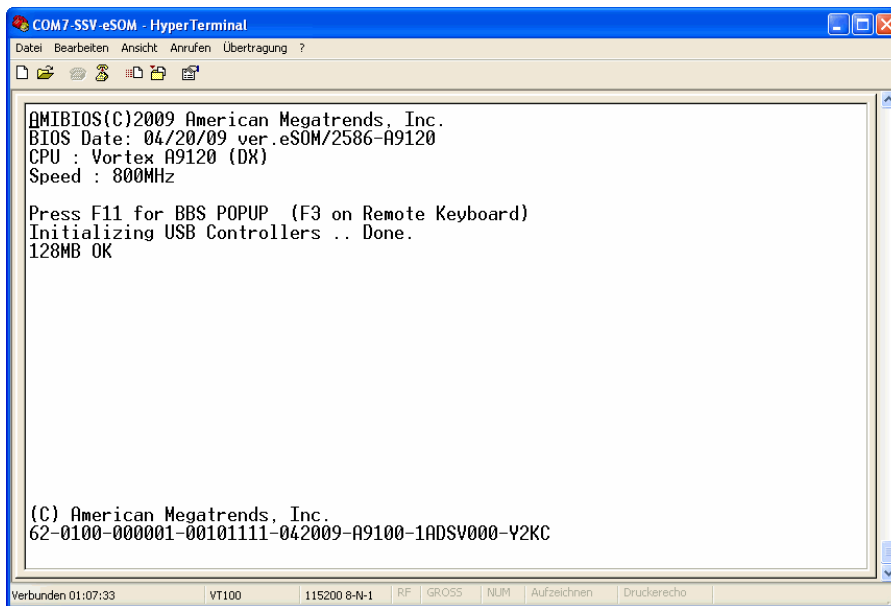


How to understand the eSOM/2586 Boot Process with RCM enabled

Direct after power-up the embedded system-on-module eSOM/2586 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 eSOM/2586 runs the AMI BIOS and initializes the hardware components. With **RCM enabled** (please see the *System-on-Module eSOM/2586 Hardware Reference Manual* for details) the BIOS show some messages over the eSOM/2586 COM1 serial port.



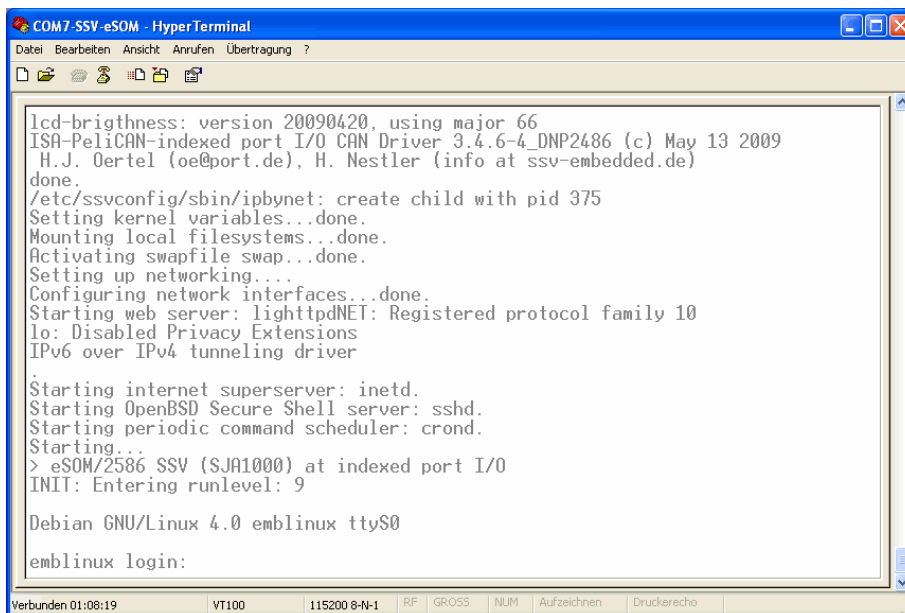
```

COM7-SSV-eSOM - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
AMI BIOS(C)2009 American Megatrends, Inc.
BIOS Date: 04/20/09 ver.eSOM/2586-A9120
CPU : Vortex A9120 (DX)
Speed : 800MHz

Press F11 for BBS POPUP (F3 on Remote Keyboard)
Initializing USB Controllers .. Done.
128MB OK

(C) American Megatrends, Inc.
62-0100-000001-00101111-042009-A9100-1ADSV000-V2KC
    
```

- 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 eSOM/2586 COM1 serial port.



```

COM7-SSV-eSOM - HyperTerminal
Datei Bearbeiten Ansicht Anrufen Übertragung ?
lcd-brighntness: version 20090420, using major 66
ISA-PeliCAN-indexed port I/O CAN Driver 3.4.6-4_DNP2486 (c) May 13 2009
H.J. Oertel (oe@port.de), H. Nestler (info at ssv-embedded.de)
done.
/etc/ssvconfig/sbin/ipbynet: create child with pid 375
Setting kernel variables...done.
Mounting local filesystems...done.
Activating swapfile swap...done.
Setting up networking...
Configuring network interfaces...done.
Starting web server: lighttpdNET: Registered protocol family 10
lo: Disabled Privacy Extensions
IPv6 over IPv4 tunneling driver
.
Starting internet superserver: inetd.
Starting OpenBSD Secure Shell server: sshd.
Starting periodic command scheduler: crond.
Starting...
> eSOM/2586 SSV (SJA1000) at indexed port I/O
INIT: Entering runlevel: 9

Debian GNU/Linux 4.0 emblinux ttyS0

emblinux login:
    
```

That is all.