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Embedded Computer Systems

ADS Boards' Linux

Boot ROM Manual

GC Plus Linux Boot ROM

GMaster Linux Boot ROM

ADS GC Plus Linux Boot ROM

Date : Aug/24/01

Version String :

ADS GC+ for Linux Boot Rom Ver. 1.76 (Build at 10:11:02,Aug 3 2001)

DIP SWITCH (S1) Setting : (4 is always OFF)

1 & 2 ON	Copy zImage & ramdisk.gz from Flash ROM to RAM and Boot from RAM
1 & 3 ON	Copy zImage & ramdisk.gz from ATA Flash Card to RAM and Boot from RAM
2 & 3 ON	Copy any/all of zImage, ramdisk.gz and flashfs1 file to Flash ROM and copy zImage & ramdisk.gz from Flash ROM to RAM and Boot from RAM
1&2&3 ON	Copy any/all of zImage, ramdisk.gz and flashfs1 file to Flash ROM and goto Menu mode

Update History :

- 1.76

1. Fix bootROM doesn't detect S/W Reset correctly.

2. Enable I-Cache after S/W Reset

3. Turn off PCMCIA power before booting

4. Make RTS lines of SA1110 3 UARTs to output and LOW state

- 1.75

1. Change MSC0 (Flash Memory Access Timing) to 0x74A07294

See "Fix for boot ROM heat failures.txt" file in this directory

2. Renable to use "flashfs1" file for Flash Programming.

But, it will not display following message any more.

flashfs1 : Reading ... Writing...

I can't find the file

Failed to load flashfs1 from an ATA flash PC card.

NOTE It is not opened to customer.

3. Return to flash erase routine same as CE boot ROM.

4. Change checking PCMCIA & reading DIP switch sequence.

NOTE Previous (~1.74) Boot ROM checked PCMCIA before checking DIP switch setting,

It causes potential problem who doesn't want to check PCMCIA before boot.

- 1.74

1. Updated to support Linux Sleep & Wakeup Power Management Feature

- 1.73

1. Delete Penguin Logo to run 16 bit LCD driver

(Strong ARM 1110 has a bug on LCD reconfiguration after RESET)

(Refer SA1110 Errata)

2. Fix booting with DIP 1,2,3&4 OFF

- 1.72

   1. Fix Flash Erase Menu did not work.
   2. Display Strong ARM Processor ID when boots up
         For example : Strong ARM ID = 0x6901B115

ADS GMaster Linux Boot ROM

Date : Aug/24/01

Version String :

GCMaster Linux Boot ROM Ver 2.00 (Mar 15 2001, 10:47:52)

DIP SWITCH (S1) Setting : (4 is always OFF)

1 & 2 ON	Copy zImage & ramdisk.gz from Flash ROM to RAM and Boot from RAM
1 & 3 ON	Copy zImage & ramdisk.gz from ATA Flash Card to RAM and Boot from RAM
2 & 3 ON	Copy any/all of zImage, ramdisk.gz and flashfs1 file to Flash ROM and copy zImage & ramdisk.gz from Flash ROM to RAM and Boot from RAM
1&2&3 ON	Copy any/all of zImage, ramdisk.gz and flashfs1 file to Flash ROM and goto Menu mode

Update History :

-2.00

1. The First official Release of GMaster Linux BootROM