

Example Armadillo 8309 2.6.39 Linux

major=1

minor=4

build=0

release=2016-08-01 15:49:30 CDT

vendor=Siemens

hardware=eInfoChips ATC8309

MBU=TYZ:MBU17090-140

MBU=p230b2

1. ftp or file transfer format.tar to controller. The files will normally land in /home/admin.
2. Telnet <controller IP address>
3. login as: admin
 - a. Password: \$adm*kon2
4. Check what user you are "whoami"
 - a. Should be "admin"
5. Change to root user "su"
 - a. Password: Eagle%70atc
6. Change to location /home/admin "cd /home/admin"
7. Change permissions on format.tar "chmod 755 format.tar"
8. Extract format.tar to /opt/siemens "tar -xvpf format.tar -C /opt/siemens"
9. Change directory to /opt/siemens "cd /opt/siemens/"
10. Make sure the utilities and there "ls"
NextPhase format.tar **mkdosfs** updates
backup linuxapilib sepac web_processor
fdisk mfit sepacn webcntrl
11. Find perflog and kill the process "pgrep -l perflog"
 - a. Returns process ID: \$PID perflog
 - b. Kill process using PID numeric value returned from previous command "kill -9 \$PID"
12. Unmount SD card "umount /media/sd"
13. Find memory devices you should see the below highlighted in yellow near the end of the printout of this command "fdisk -l"
Disk **/dev/mmcbk0**: 3980 MB, 3980394496 bytes

9 heads, 8 sectors/track, 107975 cylinders

Units = cylinders of 72 * 512 = 36864 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/mmcbk0p1		1	107975	3887096	b	W95 FAT32

14. Run command “fdisk /dev/mmcbk0” and enter the inputs in yellow below as the options appear. The red text are just comments to read.

The number of cylinders for this disk is set to 107975.

There is nothing wrong with that, but this is larger than 1024,
and could in certain setups cause problems with:

- 1) software that runs at boot time (e.g., old versions of LILO)
- 2) booting and partitioning software from other OSs
(e.g., DOS FDISK, OS/2 FDISK)

Command (m for help): d

Selected partition 1

Command (m for help): p

Partition has been deleted

Disk /dev/mmcbk0: 3980 MB, 3980394496 bytes

9 heads, 8 sectors/track, 107975 cylinders

Units = cylinders of 72 * 512 = 36864 bytes

Device	Boot	Start	End	Blocks	Id	System
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Notice Partition mmcbk0p1 is not here at this location.

Create new partition

Command (m for help): n

Command action

e extended

p primary partition (1-4)

Enter p here before selecting partition number

p

Partition number (1-4): 1

First cylinder (1-107975, default 1): Press <enter> here.

Using default value 1

Last cylinder or +size or +sizeM or +sizeK (1-107975, default 107975): Press <enter> here.

Using default value 107975

Command (m for help): p

Disk /dev/mmcblk0: 3980 MB, 3980394496 bytes

9 heads, 8 sectors/track, 107975 cylinders

Units = cylinders of 72 * 512 = 36864 bytes

Notice partition mmcblk0p1 is now present

Device	Boot	Start	End	Blocks	Id	System
/dev/mmcblk0p1		1	107975	3887096	83	Linux

Make the type Fat32.

Command (m for help): t

Selected partition 1

Hex code (type L to list codes): b

Changed system type of partition 1 to b (W95 FAT32)

Write changes to disk

Command (m for help): **w**

The partition table has been altered!

Calling ioctl() to re-read partition table.

WARNING: If you have created or modified any DOS 6.x partitions, please see the fdisk manual page for additional information.

Syncing disks.

Now that fdisk has written the new partition you need to format the drive as such

15. Format device `"mkdosfs /dev/mmcblk0p1"`
mkdosfs 2.11 (12 Mar 2005)
16. Remount SD card `"mount /media/sd"` (go to step 16a below then continue w/step 17)
17. Restart Performance measures process `"/opt/siemens/sepac/perflog &"`
You will see alot of output from this command here
18. Check that perlog is running `"pgrep -l perflog"`
 - a. **This command will return a numeric PID if it does not something went wrong!**
19. Check for SPM .dat files in /media/sd `"ls -l /media/sd"`
 - a. Should see files that start with SIEM and config.

DONE!

- 16a. Set the library path before running perflog. Run this command before starting perflog:
`export LD_LIBRARY_PATH=/lib: /usr/lib: /var/lib: /opt/lib`