

kernel

and in case of 1:

- o mtd -r -e alt_kernel -n write openwrt-qualcommax-ipq807x-linksys_mx4300-squashfs-factory.bin alt_kernel
- 2. Installation using serial connection from OEM firmware (default login: root, password: admin):
 - fw_printenv -n boot_part

In case of 2:

- o flash erase /dev/mtd21 0 0
- nandwrite -p /dev/mtd21 openwrt-qualcommax-ipq807x-linksys mx4300-squashfs-factory.bin

or in case of 1:

- o flash erase /dev/mtd23 0 0
- o nandwrite -p /dev/mtd23 openwrt-qualcommax-ipq807x-linksys mx4300-squashfs-factory.bin

After first boot install firmware on second partition:

o mtd -r -e kernel -n write openwrt-qualcommax-ipq807x-linksys_mx4300-squashfs-factory.bin kernel

or:

- o mtd -r -e alt kernel -n write openwrt-qualcommax-ipq807x-linksys mx4300-squashfs-factory.bin alt kernel
- 3. Installation from initramfs image using USB drive:

Put the initramfs image on the USB drive:

o dd bs=1M if=openwrt-qualcommax-ipq807x-linksys_mx4300-initramfs-uImage.itb of=/dev/sdX

Stop u-boot and run:

o usb start && usbboot \$loadaddr 0 && bootm \$loadaddr

Write firmware to the flash from initramfs:

mtd -e kernel -n write openwrt-qualcommax-ipq807x-linksys mx4300-squashfs-factory.bin kernel

and:

- o mtd -r -e alt_kernel -n write openwrt-qualcommax-ipq807x-linksys_mx4300-squashfs-factory.bin alt kernel
- 4. Back to the OEM firmware:
 - mtd -e kernel -n write FW_MX4300_1.0.4.215382_prod.img kernel

and:

mtd -r -e alt_kernel -n write FW_MX4300_1.0.4.215382_prod.img alt_kernel

5. USB recovery:

Put the initramfs image on the USB:

dd bs=1M if=openwrt-qualcommax-ipq807x-linksys mx4300-initramfs-uImage.itb of=/dev/sdX

Set u-boot env:

- o fw setenv bootusb 'usb start && usbboot \$loadaddr 0 && bootm \$loadaddr'
- o fw_setenv bootcmd 'run bootusb; if test \$auto_recovery = no; then bootipq; elif test \$boot_part = 1; then run bootpart1; else run bootpart2; fi'

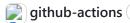














github-actions (bot) added kernel core packages target/qualcommax labels on Aug 4

asd333111 commented on Aug 4 • edited ▼

The stock firmware doesn't use the app2_data and app2 partitions. I have tested this myself by wiping both partitions. I think we should figure out how to use these two partitions effectively (about 500MB in total). app2 is empty.

app2_data contains an unused UBI.

ubireader_display_info app2_data UBI File

Min I/0: 4096 LEB Size: 253952 PEB Size: 262144 Total Block Count: 343 Data Block Count: 241 Layout Block Count: 2

Internal Volume Block Count: 0 Unknown Block Count: 100 First UBI PEB Number: 1071

Image: 1047401851

Image Sequence Num: 1047401851

Volume Name: kernel Volume Name:ubi_rootfs

PEB Range: 0 - 342

Volume: kernel

Vol ID: 0

```
Name: kernel
                Block Count: 16
                Volume Record
                ______
                      alignment: 1
                      crc: '0x69f200d5'
                      data_pad: 0
                      errors: ''
                      flags: 0
                      name: 'kernel'
                      name_len: 6
                      padding:
rec index: 0
                      reserved_pebs: 42
                      upd_marker: 0
                      vol_type: 'dynamic'
           Volume: ubi rootfs
           -----
                Vol ID: 1
                Name: ubi rootfs
                Block Count: 225
                Volume Record
                      alignment: 1
                      crc: '0x387a730f'
                      data_pad: 0
                      errors: ''
                      flags: 'autoresize'
                      name: 'ubi_rootfs'
                      name len: 10
                      padding:
rec_index: 1
                      reserved_pebs: 225
                      upd_marker: 0
                      vol_type: 'dynamic'
```



testuser7 force-pushed the mx4300 branch from b5d2f03 to 4402bfc 2 months ago

Compare





testuser7 mentioned this pull request on Aug 12

qualcommax: ipq807x: Add ability to perform upgrade on current partition for MX4200/MX5300/MX8500 #14720

፤ጌ Open



feiyax reviewed on Aug 22

View reviewed changes

package/system/mtd/src/linksys_bootcount.c





feiyax reviewed on Aug 22

View reviewed changes

target/linux/qualcommax/ipq807x/base-files/etc/board.d/02_network

Show resolved

target/linux/qualcommax/patches-6.6/0911-arm64-cmdline-replacement.patch

\$\displaystyle{\psi}\$ Show resolved



testuser7 force-pushed the mx4300 branch 2 times, most recently from bca3640 to e6c020b

Compare

2 months ago





DenWRT-fanboy approved these changes on Aug 29

View reviewed changes





cybrnook approved these changes on Aug 30

View reviewed changes



cybrnook left a comment

Contributor

Compiles against master fine and has been running smooth for a week so far.



/

se6ast approved these changes on Aug 30

View reviewed changes

en: **Tozen-icecube** approved these changes on Aug 31

View reviewed changes



frozen-icecube left a comment • edited •

Looks fine.

Have been running stable except i see this error in the kernel log:

ath11k c000000.wifi: failed to flush transmit queue, data pkts pending 1

But seems this might be resolved with the nss patches. This is a known upstream issue with as per this: #15929



se6ast approved these changes on Aug 31

View reviewed changes



hsnoil approved these changes on Sep 2

View reviewed changes



NTheZone approved these changes on Sep 2

View reviewed changes



NTheZone left a comment

Done. Approved!





ghoffman9 approved these changes last month

View reviewed changes



gdlesage approved these changes last month

View reviewed changes



neheb approved these changes last month

View reviewed changes



kristskrilovs approved these changes 3 weeks ago

View reviewed changes

rkboni commented 3 weeks ago • edited ▼

<u>@testuser7</u> thanks for this work, I'm glad to have the MX4300 supported... would breaking out the MX4200 / generic mtd changes into their own PRs help get this reviewed/merged by the powers that be? Esp. having heard the forum feedback (particularly from <u>@robimarko</u>), maybe worth doing, and leaving this as just the core MX4300 commit to get core devs <u>@</u> easier?



gtxaspec approved these changes 3 weeks ago

View reviewed changes

testuser7 force-pushed the mx4300 branch 2 times, most recently from b3aac58 to f2cbc93 Compare last week

770

Prof256 approved these changes last week

View reviewed changes



Prof256 left a comment

Working with no issue for 7 days.

7 CU

1997cui approved these changes last week

View reviewed changes

25แก.

nshestiuk approved these changes 5 days ago

View reviewed changes

testuser7 added 2 commits 5 days ago

-O- and qualcommax: ipq807x: remove unnecessary bootargs-append for MX4200 ... dad3db7

0/2/24, 9:17	M qualcommax: ipq807x: add support for Linksys MX4300 (LN1301) by testuser7 · Pull Request #16070 · openwi	t/openwrt · GitHub
-0-	qualcommax: ipq807x: create generic Linksys MX4x00 dts	231ec05
	stuser7 and others added 6 commits <u>5 days ago</u>	
-0-	qualcommax: ipq807x: define configuration for Linksys MX4x00 devices	fc42c07
-0-	qualcommax: ipq807x: fix mac setup for Linksys MX4200v2	fdc6698
-0-	mtd: fix resetbc on nand w/ min I/O size > 2048	1619f68
-0-	qualcommax: add kernel cmdline replacement hack	6f1f13d
-0-	mtd: check the return value of malloc and pread	7a68206
-0-	qualcommax: ipq807x: add support for Linksys MX4300 (LN1301)	cb57737
	testuser7 force-pushed the mx4300 branch from f2cbc93 to cb57737 5 days ago	Compare
Reviewers		
eiyax feiyax		\Box
frozen-icecube		✓
NTheZone		~
neheb		~
2 1997cui		✓
gtxaspec		~
nshestiuk		

gdlesage **cybrnook**

ghoffman9

se6ast

Prof256

kristskrilovs

hsnoil

OpenWRT-fanboy

At least 6 approving reviews are required to merge this pull request.

Assignees

No one assigned

Labels

core packages kernel target/qualcommax

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

18 participants

