S2L BPI2.7 package, patch, documents and tools release notes.

It includes the following components:

  S2Lm patch and a prebuilt image

  MCU source code and MCU firmware

  IOS IPA file

  Cloud server program

Release notes:

1)     Bug fixes in AMBoot  3A

2)     Add night mode idsp config

3)     Handle bad nand block  when loading DSP code

4)     Two REF/B frame support in fastboot

5)     Cooee is not supported in WiFi firmware

Usage:

Patch to SDK2.6.0 (s2l\_2.6.0\_20150928.tar.xz)

    1. Extract Linux kernel in s2l\_linux\_sdk.

        $ cd s2l\_linux\_sdk/ambarella

        $ source build/env/Linaro-multilib-gcc4.9.env

$ cd boards/hawthorn

        $ make sync\_build\_mkcfg

        $ make s2l\_ipcam\_config

    2. Extract s2lm\_BPI\_2.7\_20171102.tar.bz2 under s2l\_linux\_sdk/ (in the same folder as ambarella/)

        $ cd s2l\_linux\_sdk/

        $ tar xjf s2lm\_BPI\_2.7\_20171102.tar.bz2

    3. Apply the patch for source files.

        $ cd s2lm\_BPI\_2.7\_20171102

        $ chmod +x apply.sh

        $ ./apply.sh

    4. Make

        $ cd s2l\_linux\_sdk/ambarella/boards/s2lm\_elektra

$ source ../../build/env/armv7ahf-linaro-gcc.env

        $ make sync\_build\_mkcfg

        $ make s2lm\_elektra\_fastboot\_config

        $ make defconfig\_public\_linux

        $ make –j8

s2lm\_BPI\_2.7\_patch\_in1\_20180307.tar.bz2

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Patch to s2lm\_BPI\_2.7

Usage:

    1. Follow the instruction provided in BPI release 2.7 readme.txt

    2. Extract s2lm\_BPI\_2.7\_patch\_in1\_20180307.tar.bz2 under s2l\_linux\_sdk/ (in the same folder as ambarella/)

        $ cd s2l\_linux\_sdk/

        $ tar xjf s2lm\_BPI\_2.7\_patch\_in1\_20180307.tar.bz2

    3. Apply the patch for source files.

        $ cd s2lm\_BPI\_2.7\_patch\_in1\_20180307

        $ chmod +x apply.sh

        $ ./apply.sh

    4. Make

        $ cd s2l\_linux\_sdk/ambarella/boards/s2lm\_elektra

        $ source ../../build/env/armv7ahf-linaro-gcc.env

        $ make sync\_build\_mkcfg

        $ make s2lm\_elektra\_fastboot\_config

        $ make defconfig\_public\_linux

        $ make

[Bug fixes]

1.      Enalbe ecc check when loading hibernation image

2.      Reload bbt when nand driver resumes

3.      Update the fio reset with nand reset when init nand hardware

4.      Support multi-slice for amboot 3A and fix 3a statistics bug

5.      Update partition utility function to support oob size of 128 bytes

6.      Fix the bug "thumbnail is bad when VCA is enabled"

7.      Include the SD-card upgrade function

8.      Fix issue of abnormal awb state in low color temperature scene for pandora fastboot case(Amboot)