

PhyFLEX-i.MX6 Linux BSP-PD12.0.3 Release Notes

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|---------------------------|---|
| Operating System | Linux |
| BSP Release Status | RELEASED |
| Release Date | 13 Mar 2013 |
| Repository | |
| Binaries | ftp://ftp.phytec.com/products/PFL-A-02_phyFLEX-iMX6/Linux/PD13.1.0/ |
| Source Archive | |
| Release Notes | Click Here |

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Introduction

This BSP provides a basis for development, deployment and execution of Linux based applications on the phyFLEX-i.MX6 System on Module (SOM). For detailed information on the various software components included in the release and how to use them, please refer to the [Quickstart](#).

Versioning

| Component | Version |
|------------------|-----------|
| Linux Kernel | 3.0.35 |
| Barebox | 2012.02.0 |
| PTX Distribution | 2012.03.0 |
| OSELAS Toolchain | 2011.11.1 |

This Release is compatible with the following hardware:

| BSP Release Version | BSP Release Date | SOM PCB Version | FLEX Mapper Board Version | FLEX Baseboard Version |
|---------------------|------------------|-----------------|---------------------------|------------------------|
| PD13.1.0 | March 13th, 2013 | 1362.1 | 1367.1 | 1364.2 |

BSP Download

Release PD13.1.0 can be downloaded from the link below.

ftp://ftp.phytec.com/products/PFL-A-02_phyFLEX-iMX6/Linux/PD13.1.0/

Quickstart

Release PD13.1.0 should be used in conjunction with Quickstart version PD13.1.0:

- [PhyFLEX-i.MX6 Linux Quickstart-PD13.1.0](#)

What's Supported

This BSP Release supports the following components:

- **i.MX6:** Kernel 3.0
- NAND Flash: Kernel, UBIFS Filesystem
- NOR Flash: Bootloader, Kernel, UBIFS Filesystem (minimal)
- DDRAM: MT41J128M16HA-15E IT DDR3
- UART: UART0; UART1
- USB: USB0 HS OTG; USB1 HS Host
- Ethernet: 10/100/1000 Mbit/s – ETH0 from RGMII
- CAN: CAN0
- SD/MMC: SD0; SD1
- PCIe (card limited)
- SATA
- SPI driver: SPI0, SPI1 enabled
- I2C driver: I2C0, I2C1 enabled
- EEPROM: at24 on I2C1
- PMIC: DA9063 on I2C1
- RTC: RTC-8564 Real-Time Clock on I2C0 (device on carrier board)
- Touch

Resistive: STMPE811 on I2C0 (device on carrier board)Capacitive: FocalTech FT5306 on I2C0

- Display:

Prime View PD050VL1 LVDS (LCD-017-050V)Prime View PM070WL4 LVDS (LCD-017-070W)Prime View PD104SLF LVDS (LCD-017-104S)EDT ETM0700G0DH6 TTL (LCD-018-070-KAP)

- Camera:

VM-006-BWVM-009VM-010-BWUSB-CAM-003H (with UVC Firmware update)USB-CAM-103H (with UVC Firmware update) (without trigger)USB-CAM-051H (with UVC Firmware update)USB-CAM-151H (with UVC Firmware update) (without trigger)

- Audio: Line in, Line out, Mixer, Mic in - not fully tested
- Video decoding
- Graphics: OpenGL
- DVFS

Note: Signal names may change between processor and PCBs. Please refer to phyFLEX-i.MX6 Hardware Manual for signal name mapping.

What's Not Supported

This BSP Release does not support the following components:

- Video encoder: Streaming, TV

Fixed in this Release

- SD slot 1, eliminated problems with some SD Cards

New in this Release

- PMIC
- Camera (on FLM-A-XL1 Mapper phyCAM-P X5)

VM-006-BWVM-009VM-010-BWUSB-CAM-003H (with UVC Firmware update)USB-CAM-103H (with UVC Firmware update) (without trigger)USB-CAM-051H (with UVC Firmware update)USB-CAM-151H (with UVC Firmware update) (without trigger)

- Sound (working - minimal testing on line out, errors are possible)
- DVFS

Known Issues

- PCIe issues with some cards
- USB-OTG serial gadget - works but unstable
- gplay movie plays only one time

Workaround: To play again, reboot the board.

Upgrade and Compatibility Information

This BSP is not backwards compatible due to a change in PCB pinout, see [Modification of the pinout for the phyFLEX-i.MX6 \(PLF-A-XL1\)](#). The BSP is specific to SOM: 1362.1 and Carrier Board: 1364.2 and will retain compatibility with future released PCB revisions.

Dependencies

N/A

Validation Information

Drivers have been tested with in-house test cases.

Technical Support

For further support please visit [PHYTEC's Support Portal](#)