

PhyCORE-OMAP44xx Linux BSP-PD12.2.0 Release Notes

Operating System	Linux
BSP Release Status	RELEASED
Release Date	
Repository	
Binaries	ftp://ftp.phytec.com/products/PCM-049_phyCORE-OMAP44xx/Linux/PD12.2.0/ Use the link below for WiFi enabled images. ftp://ftp.phytec.com/products/PCM-049_phyCORE-OMAP44xx/Linux/PD12.2.0/wifi/
Source Archive	
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Introduction

This BSP provides a basis for development, deployment and execution of Linux based applications on the phyCORE-OMAP44XX 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	3.4.11
Barebox	2012.11.0
PTX Distribution	2012.03.0
OSELAS Toolchain	2011.02.0

This Release is compatible with the following hardware:

BSP Release	SOM PCB Version	CB PCB Version
PD12.2.0	1347.1	1348.2
	1347.2	

BSP Download

Release PD12.2.0 can be downloaded from the link below.

ftp://ftp.phytec.com/products/PCM-049_phyCORE-OMAP44xx/Linux/PD12.2.0/

Use the link below for WiFi enabled images.

ftp://ftp.phytec.com/products/PCM-049_phyCORE-OMAP44xx/Linux/PD12.2.0/wifi/

Quickstart

Release PD12.2.0 should be used in conjunction with Quickstart version PD12.2.0:

- [PhyCORE-OMAP44xx Linux Quickstart-PD12.2.0](#)

What's Supported

This BSP Release supports the following components:

- **OMAP4430/OMAP4460**: Linux kernel 3.4.11
- NAND Flash: Barebox, Kernel, UBIFS Filesystem
- NOR Flash: Barebox, Kernel, UBIFS Filesystem
- LPDDR2
- UART: RS-232 on UART_3
- Ethernet: 10/100 Mbit - LAN92211 over GPMC
- SD/MMC : SDMMC_1; SDMMC_5 used with WiFi; all other SDMMC not tested
- WiFi: TiWi R2 on SDMMC_5 with OMAP4 TiWi Adapter Board
- USB Host: USB1 - Keyboard, Mouse, Memory Device
- USB-OTG: USB_OTG
- SPI driver
- I2C driver
- PMIC: TWL6030 on I2C_1
- TSC (on Carrier Board): STMPE811 on I2C_4 @ 0x41
- Display: LCD-017-070W; PD104SLF; PM070WL4
- Audio: Mixer, Line in, Line out, MIC in
- Graphics: OpenGL, qt4.7

What's Not Supported

This BSP Release does not support the following components:

- Codecs: MPEG, DivX, H.264, JPEG
- EEPROM: at24 on I2C_1
- RTC: PMIC RTC
- Camera Interface: MT9M001, MT9V022 - Available upon request
- Video Encoder: Streaming, TV - Available upon request
- 1 wire: Available upon request
- Power Management: Suspend to RAM - Available upon request

Fixed in this Release

- NAND stability
- Audio: only mono for line out
- 4460 usb otg: device mode only
- 4460 kernel stops booting in very rare cases

New in this Release

- Root filesystem as UBIFS
- POH logger
- PWM

Known Issues

- Display and DVI does not work when used parallel
- OpenGL only for X
- Dual Display only for X
- Touch - sometimes gets wrong samples
- Nameserver configuration wrong
- OMAP4460 1.5 GHz only operates at 1.2 GHz
- WiFi requires an inserted SD Card at SDMMC1 (X11)

Upgrade and Compatibility Information

To upgrade to a new BSP release, simply delete the old release and extract the new release in its place.

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](#)