

PhyCORE-AM335x Linux BSP-PD12.1.1 Release Notes

Operating System	Linux
BSP Release Status	RELEASED
Release Date	
Repository	
Binaries	ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Linux/PD12.1.1/
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 phyCORE-AM335X 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	3.2
Barebox	2012.11.0
u-boot	2011.09
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	CB PCB Version
PD12.1.1	2/5/2013	1358.2	1359.3
			1359.2

BSP Download

Release PD12.1.1 can be downloaded from the link below.

ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Linux/PD12.1.1/

Quickstart

Release PD12.1.1 should be used in conjunction with Quickstart version PD12.1.0:

- [PhyCORE-AM335x Linux Quickstart-PD12.1.0](#)

What's Supported

This BSP Release supports the following components:

- Linux Kernel: 3.2
- NAND Flash: Bootloader, Kernel, Filesystem
- NOR Flash: Bootloader, Kernel, Filesystem
- UART: RS-232 on UART_0; UART_1
- USB: USB_0-OTG enabled for Host mode; USB_1-OTG enabled for Host mode
- Ethernet: ETH1 from RMII1 (not stable above 96 Mbit/s); RGMII2
- SD / MMC: MMC_0 enabled; MMC_2 used with WiFi; all other MMC not tested

WiFi: TiWi R2 on MMC_2

- CAN: CAN_0 enabled
- SPI: SPI_0 enabled
- I2C: I2C_0 enabled

EEPROM: at24 on I2C_0PMIC: TPS65910A3 on I2C_0RTC: RV-4162-C7 external RTC on I2C_0; PMIC TPS65910A3 RTC on I2C_0

- Audio: Wolfson Codec WM8974 Headphones, Mono out, Mic in, Speakers patch available upon request
- Display: Prime View PD050VL1 LVDS (LCD-017-050V); Prime View PM070WL4 LVDS (LCD-017-070W); Prime View PD104SLF LVDS (LCD-017-104S); Hitachi TX09D70VM1CCA TFT (LCD-011)
- Graphics: OpenGL binaries under TSPA license

What's Not Supported

This BSP Release does not support the following components:

- Bluetooth: TiWi R2 on McASP1/UART_1
- Power Management: Standby and suspend-to-RAM

Fixed in this Release

- Increased NAND speed in barebox
- NAND boot issues in MLO
- BSP compiling issues
- Barebox mounting SD Cards when not booting from SD Card

New in this Release

- RTC: PMIC TPS65910A3 RTC
- Display backlight control

Known Issues

- When booting from SPI-NOR Flash the booting environment is used from NAND instead of SPI-NOR Flash
- ETH1 - PHY0.0 is not found

Workaround: Ethernet Cable must be plugged into X12 before Linux is booted

- BSP Build Errors (iproute2) - *ptxdist-2012.03.0 go* results in md5sum error due to a path change in file download.

Workaround: Download iproute2-2.6.39.tar.gz from an alternate source ([Here](#)) and place it in the phyCORE-AM335x-PD12.1.1/src directory.

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 information or to report any problems, visit the [PHYTEC Community](#) or contact support@phytec.com.