

# PhyCORE-AM335x Linux BSP-PD12.1.0 Release Notes

<b>Operating System</b>	Linux
<b>BSP Release Status</b>	<b>RELEASED</b>
<b>Release Date</b>	
<b>Repository</b>	
<b>Binaries</b>	<a href="ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Linux/PD12.1.0/">ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Linux/PD12.1.0/</a>
<b>Source Archive</b>	
<b>Release Notes</b>	<a href="#">Click Here</a>

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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	SOM PCB Version	CB PCB Version
PD12.1.0	1358.2	1359.2

## BSP Download

Release PD12.1.0 can be downloaded from the link below.

[ftp://ftp.phytec.com/products/PCM-051\\_phyCORE-AM335x/Linux/PD12.1.0/](ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Linux/PD12.1.0/)

## Quickstart

Release PD12.1.0 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:

- Barebox: Boot modes - NAND MTD partition; SPI-NOR on SPI\_0; SD/MMC on MMC\_0; TFTP on ETH1
- Kernel: Linux 3.2
- USB: USB\_0-OTG enabled for Host mode, OTG mode not tested; USB\_1-OTG enabled for Host mode, functionality not tested
- Ethernet: ETH1 RGMII1 not stable above 96 Mbit/s; ETH2 RGMII2
- WiFi: TiWi R2 on MMC\_2
- UART: UART\_0 enabled; UART\_1 not tested
  - Debug: UART\_0
- CAN: CAN\_0 enabled
- SD/MMC: MMC\_0 enabled; MMC\_2 used with WiFi; all other MMC not tested
- SPI driver: SPI\_0 enabled
- I2C driver: I2C\_0 enabled
  - EEPROM: at24 on I2C\_0
  - PMIC: TPS65910A3 on I2C\_0
  - RTC: RV-4162-C7 external RTC on I2C\_0; Internal RTC on I2C\_0; TPS65910A3 PMIC on I2C\_0 with battery backup patch available upon request
  - Touch Controller: connected to I2C\_0
- Display: Prime View PD050VL1 LVDS; Hitachi TX09D70VM1CCA TFT
- 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
- Audio: Wolfson Codec WM8974 Headphones, Mono out, Mic in, Speakers
- Power Management: Standby and suspend-to-RAM

## Fixed in this Release

- NAND Support in Kernel
- CAN Problems
- Ethernet Issues

## New in this Release

- Barebox as Second Stage Bootloader with NAND, SPI-NOR, SD/MMC boot mode support

## Known Issues

- Barebox

When booting from SPI-NOR Flash the booting environment is used from NAND instead of SPI-NOR Flash

- Megabit Ethernet

PHY0.0 is not foundSolution: 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.Solution: Download iproute2-2.6.39.tar.gz from an alternate source (Here) and place it in the phyCORE-AM335x-PD12.1.0/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](mailto:support@phytec.com).