PhyCORE-AM335x Compact 7 BSP-PD13.2.0 Release Notes

Operating System	Windows CE
BSP Release Status	RELEASED
Release Date	
Repository	
Binaries	ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Compact7/PD13.2.0/ **Important:** Pay special attention to your SOM board revision. Due to updated RAM timings, the bootloaders for **SOM revision 1358.3 (PCM-051-12102F0C.A1)** should be download from the link below: ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Compact7/PD13.2.0/PCM-051-12102F0C.A1/Bootloader/
Source Archive	
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Introduction

This BSP provides a basis for development, deployment and execution of Compact 7 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
Windows Embedded Compact	Based on TI Release BSP_WINCE_A8 2.00.00.01

This Release is compatible with the following hardware:

BSP Release Version	BSP Release Date	SOM PCB Version	CB PCB Version
PD13.2.0	7/11/2013	1358.3 [1]	1359.3
		1358.2	1359.2

[1] Due to updated RAM timings different software is required to boot the board. Please use BSP Download PCM-051-12102F0C.A1 images that have modified versions of the bootloaders.

BSP Download

Release PD13.2.0 can be downloaded from the link below.

ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Compact7/PD13.2.0/

Important:

Pay special attention to your SOM board revision. Due to updated RAM timings, the bootloaders for **SOM revision 1358.3 (PCM-051-12102F0C.A1)** should be download from the link below:

ftp://ftp.phytec.com/products/PCM-051_phyCORE-AM335x/Compact7/PD13.2.0/PCM-051-12102F0C.A1/Bootloader/

Quickstart

Release PD13.2.0 should be used in conjunction with Quickstart version L-780e_0:

- Quickstart

What's Supported

This BSP Release supports the following components:

- Boot Modes: NAND Flash; SD Card
- UART: RS-232 on UART_0; UART_1
- USB: USB_0-OTG; USB_1-OTG enabled for Host mode
- Ethernet: ETH0 from RMII1 (10/100 Mbit/s); ETH1 from RGMII2 (10/100/1000 Mbit/s)
- SD / MMC: MMC_0 enabled; all other MMC not tested
- CAN: CAN_0 enabled
- SPI: SPI_0 enabled
- I2C: I2C_0 enabled

EEPROM: at24 on I2C_0RTC: RV-4162-C7 external RTC on I2C_0PMIC: TPS65910A3 on I2C_0TSC: Resistive: STMPE811 on I2C0 (device on carrier board); Capacitive: FocalTech FT5306 on I2C0

- Audio: Wolfson Codec WM8974 Line in, Line out, Mic in, Speakers
- Display: EDT ETM0700G0DH6 TTL (LCD-018-070-KAP); 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)

What's Not Supported

This BSP Release does not support the following components:

- Power Management
- PRUS

Fixed in this Release

- SD card: Implement Card detection interrupt
- Splashscreen could now be flashed into NAND Flash through SD Card
- MPU Frequency is raised to 720 MHz
- Ethernet:

Device hangs after disconnect the ethernet cableIf the device boot up without connected ethernet cable it takes 40 seconds more time to boot.

- Boot time optimized

New in this Release

- LCD-018 + capacitive Touch
- 1 GBit Ethernet driver
- GPIO driver
- Audio driver

Known Issues

- Sometimes USB OTG Active Sync is not starting. Reboot is necessary
- Audio: For some reasons Audio is not working at startup

Workaround: Disable the Windows system sounds to get Audio working on running system.

Upgrade and Compatibility Information

To upgrade to a new BSP release, use the Windows uninstaller to remove the existing BSP via *Start->Control Panel->Uninstall a program*. Then install the new BSP using the Microsoft installer package or executable, e.g., <device name>-Compact7_BSP_Source-PDxx.x.x.msi.

Dependencies

N/A

Validation Information

Drivers have been tested with a combination of in-house test cases, as well as with the Windows Embedded Compact7 Test Kit (installed along with Windows Compact 7) where applicable.

Technical Support

For further information or to report any problems, contact PHYTEC Technical Support.