

# PhyCORE-Vybrid MQX BSP-PD13.2.0 Release Notes

Operating System	MQX
BSP Release Status	RELEASED
Release Date	07 Aug 2013
Repository	
Binaries	<a href="ftp://ftp.phytec.com/products/PCM-052_phyCORE-Vybrid/MQX/PD13.2.0">ftp://ftp.phytec.com/products/PCM-052_phyCORE-Vybrid/MQX/PD13.2.0</a>
Source Archive	
Release Notes	<a href="#">Click Here</a>

- [Introduction](#)
- [Versioning](#)
- [BSP Download](#)
- [Quickstart](#)
- [What's Supported](#)
- [What's Not Supported](#)
- [Fixed in this Release](#)
- [New in this Release](#)
- [Known Issues](#)
- [Upgrade and Compatibility Information](#)
- [Dependencies](#)
- [Validation Information](#)
- [Technical Support](#)

## Introduction

This BSP provides a basis for development, deployment and execution of MQX based applications on the phyCORE-Vybrid 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
MQX RTOS	4.0.1
ARM DS-5	5.14
Linux Kernel	3.0
u-boot	2011.12

This Release is compatible with the following hardware:

BSP Release Version	BSP Release Date	SOM PCB Version	CB PCB Version
PD13.2.0	8/7/2013	1374.0	1375.2

## BSP Download

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

[ftp://ftp.phytec.com/products/PCM-052\\_phyCORE-Vybrid/MQX/PD13.2.0](ftp://ftp.phytec.com/products/PCM-052_phyCORE-Vybrid/MQX/PD13.2.0)

## Quickstart

Release PD13.2.0 should be used in conjunction with Quickstart version QS1.0:

- [PhyCORE-Vybrid\\_Quickstart-QS1.0](#)

## What's Supported

This BSP Release supports the following components:

- UART: RS-232 via SCI\_1; RS-232 via SCI\_2
- USB: USB\_0 in Host Mode - mass storage device, keyboard, mouse; USB\_1 in Host Mode - mass storage device, keyboard, mouse
- Ethernet: RMII0; RMII1

### Note:

The Ethernet PHY supported on this BSP is KSZ8051RNLI. Due to EOL this part has been replaced with KSZ8081RNBIA. SOMs with part number PCM-052-1210321CI.A3 will be populated with KSZ8081RNBIA. Ethernet functionality is the same for SOMs populated with the KSZ8051RNLI or KSZ8081RNBIA. The KSZ8081RNBIA PHY has a different model number that will be added to the software in the next BSP release.

- SPI: DSPI0 - not tested
- I2C driver: I2C\_2 enabled
  - EEPROM: at24 on I2C\_2
  - Light sensor: on I2C\_2
- Display: Prime View PM070WL4 LVDS (LCD-017-070W) - no demo available/not tested
- Watchdog
- High Speed Timer
- MCC: Cortex-A5 (Linux) and Cortex-M4 (MQX)

## What's Not Supported

This BSP Release does not support the following components:

- NAND Flash
- SPI NOR Flash
- CAN: CAN\_0; CAN\_1
- RTC: RV-4162-C7 on I2C\_2
- TSC: STMPE811 on I2C\_2
- Power Management: Suspend to RAM

## Fixed in this Release

- Ethernet 1 support in the BSP

## New in this Release

- Cortex-A5 support
- RS-232 via SCI\_2
- USB\_0 in Host Mode - mass storage device, keyboard, mouse
- USB\_1 in Host Mode - mass storage device, keyboard, mouse
- SPI
- Light Sensor
- ADC
- Watchdog
- High Speed Timer

## Known Issues

- Only one ADC channel can be enabled at a time, ADC0 or ADC1

Workaround: Apply the patch available here: [ftp://ftp.phytec.com/products/PCM-052\\_phyCORE-Vybrid/MQX/PD13.2.0/0002-pcm052-bug-fix-for-lwadc.patch](ftp://ftp.phytec.com/products/PCM-052_phyCORE-Vybrid/MQX/PD13.2.0/0002-pcm052-bug-fix-for-lwadc.patch)

- USB0 and USB1 mouse example works for mouse clicks only

## 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, contact [PHYTEC Technical Support](#).