# Release Notes


# BIOSUSB 01.10.01


## 10 December 2009

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# 1 Introduction

The BIOSUSB Package (based on JUNGO USB stack) provides capability to incorporate a USB host or USB device functionality for an embedded C6747/OMAPL137 and C6748/OMAPL138 platform device.

This BIOSUSB package is intended for DSP that runs DSP/BIOS™ (user guide that come along with this release details the system requirements)

## 1.1 Release Category

This BIOSUSB release versioned 01.10.01 is a GA release support for C6747/OMAPL137 or C6748/OMAPL138 EVMs.

## 1.2 Text Conventions

| | |
|---|---|
| ❖ | This bullet indicates important information. Please read such text carefully. |
| ➢ | This bullet indicates additional information. |

## 2    Out-of-Box Contents

BIOSUSB_01_10_01_Setup.exe contains following:

| | |
|---|---|
| 1 | ➢ Libraries for both device and host mode configuration.<br><br>➢ Source code for host and device example, MSC-Device Glue application.<br><br>➢ The above mentioned items are located inside the "<bios_installation_dir>\ti\packages\"<br><br>➢ Project files for each example (DSP/BIOS™), CCS3 and CCS4 build files<br><br>➢ Please note that the CCS setup files and GEL files are _NOT_ provided with this release and this would be available with latest CCSv3 releases or from EVM vendor. |
| 2 | Release Notes (this document) providing an overview of this release |
| 3 | User Guide that provides information on usage of the package . |
| 4 | Data sheet provides performance figures and CPU load for MSC host and MSC device configuration. |

# 3    Dependencies

The following products are required to be installed prior to using the BIOSUSB Package for C6747/OMAPL37 and C6748/OMAPL138 platform:

<u>For CCS3 Environment</u>

- ❖ CCS 3.3.80.11 (service release 10)
- ❖ DSP-BIOS versioned **5.41.02.14**
- ❖ Code Generation Tools **6.1.9**
- ❖ EVM C6747/OMAPL37 (Rev-D recommended) or C6748/OMAPL138 Board (Beta- version recommended)
- ❖ XDS 510 USB Emulator (Optional) – EVM has on board emulator

<u>For CCS4 Environment</u>

- ❖ CCS4 version 4.0.0.16000
- ❖ DSP-BIOS versioned **5.41.02.14**
- ❖ XDS 510 USB Emulator (Optional) – EVM has on board emulator

<u>Dependent Packages</u>

- ❖ EDMA 3 LLD –  versioned **01.11.00.02**
- ❖ ERTFS File System package versioned **1.10.00.30 or higher version**
- ❖ PSP_DRIVERS Package **-** The BIOSPSP GA Package with versioned **1.30.00**

# 4    BIOSUSB Features supported in this release

- USB Host features
    - o MSC class driver
    - o HID class driver

    Note: Maximum of two USB mass storage devices are supported.

- USB –Slave/Device features
    - o Mass storage class
    - o HID class ( keyboard function driver)
- Other component dependency for BIOSUSB
    - o Blockmedia ( BIOSPSP Package )
    - o ERTFS  ( ERTFS Package )

## 4.1    Changes from previous release

- The TCF (.tcf) file of C6748 usbdevmsc example project has been modified to include the PRD task entry.

- support both CCS3 and CCS4.

- Support for following platforms

  o C6747/OMAPL137

  o C6748/OMAPL138

## 4.2    Other changes

- none

**TEXAS INSTRUMENTS**

# 5 Known Issues

## 5.1 USB Host Disconnect Issue (SDOCM00057283 )

In USB Host configuration when mass storage device is removed while file i/o is in progress and further re-connection of any device is not recognized by the host.

This issue is applicable for both USB1 (OHCI) and USB0 ( Mentor host controller) interfaces.

**Workaround** : Avoid device removal when being used actively.

## 5.2 Unable createPartition when two usb stick connected to C6747/C6748 (SDOCM00064929)

when two usb mass storage device or stick connected to usb 1.1 port or usb2.0 port of Freon/primus platform, the two device detected and getDriveId() returns the driveID. After clear partition is done, when trying to create partition, the getdevparams function returns failure. Further not able to create the partition on the usb drive.

**Workaround** : None.

## 5.3 USB MSC Device Example (Dynamic removal of MMC/SD or NAND OR SATA device is not supported)

When target as USB Mass storage device exposing MMC/SD or NAND device as storage media to Host PC. The dynamic removal of MMC/SD card or NAND device is not supported.

**Workaround** : None

# 6 Technical Support BIOSUSB

To submit questions about issues with this BIOSUSB drivers release please go to the external forums at http://community.ti.com/ or to http://support.ti.com