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C6748 Development Kit (LCDK) Quick Start Guide

Congratulations on purchasing the C6748 Development Kit and welcome to the Quick Start Guide. This guide is designed to help you through the initial set up of your development kit. The kit provides hardware and software that allows you to quickly and easily evaluate TI's TMS320C6748 processor.

The following items will be used in this Quick Start Guide.

TMS320C6748 Development Board

Power supply and adapter
External power supply requirements
Nominal output voltage: 5VDC
Maximum output current: 3A
Efficiency level V

microSD card + Adapter
BIOS C6SDK
Code Composer Studio™ IDE v5
Code Gen Tool 7.3.1

Mini-USB cable

Troubleshooting

If you do not have the USB-to-UART driver installed on your PC, download it from here: **www.ftdichip.com/Products/ICs/FT232R.htm**

For community support, please visit: **https://e2e.ti.com/**

The online LCDK User's Guide is available at: **www.ti.com/lit/pdf/SPRUIL2**

For more information on the TMS320C6748 processor visit:
www.ti.com/product/TMS320C6748

or to download the latest TI software, please visit:
http://www.ti.com/tool/processor-sdk-omapl138

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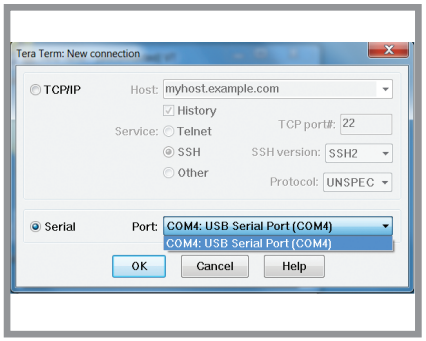
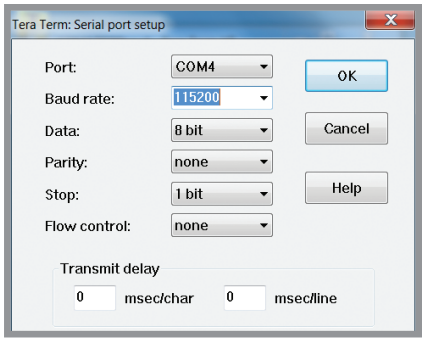
SPRW269A

1 Set the DIP switch with 2, 3, 4 **ON** and 1, 5, 6, 7, 8 **OFF**.

2 Connect the supplied mini-USB cable to J3 on the UART-USB port on the LCDK. Connect the other end of the cable to a USB port on your host computer.



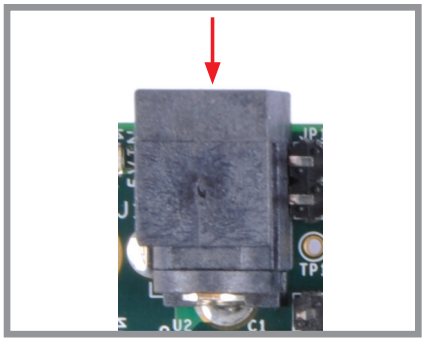
3 On the host computer, open a serial port terminal like Tera Term and select the connection to the USB serial port.



4 Set the baud rate to 115200.

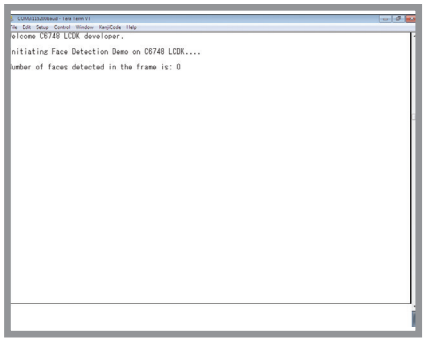
Note: To do this in Tera Term, go to Setup -> Serial port and set the Baud rate as 115200 from the drop-down menu.

5 Connect the appropriate adapter to the power supply

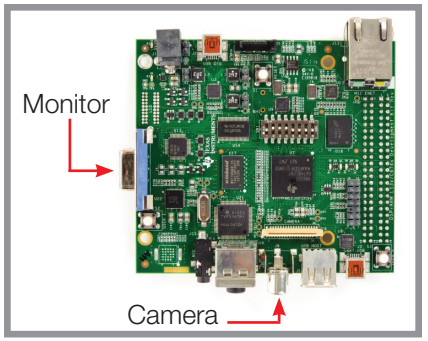


6 Connect power to the board and electric outlet.

NOTE: TI recommends using an external power supply that complies with applicable regional safety standards such as (by example) UL, CSA, VDE, CCC, PSE, etc.

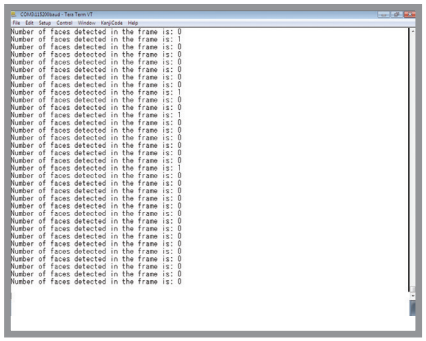


7 You are now ready to run the first on-board demos. In less than 10 seconds, in your Tera Term window you should see a screen like the one above.



8 To run the Face Detect demo external hardware is needed.

- Connect the composite camera input at J6 on composite video input port.
- Connect the composite monitor out at J4 on composite video out port.



9 After 10 seconds, in your Tera Term window, the demo continues capturing the number of objects detected in each frame and it prints in the screen like the one above.

BIOS C6SDK

The BIOS C6SDK installer is present in the SD card. Start your development with the BIOS C6SDK for C6748 users by installing the SDK executable. Install Code Composer Studio™ IDE v5 and Code Gen Tools for before installing the C6SDK installer. Refer to the user guide for details on start of development which comes with the BIOS C6SDK.

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