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OMAP-L138 DSP+ARM9™ Development Kit (LCDK) Quick Start Guide

Congratulations on purchasing the OMAP-L138 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 OMAP-L138 processor.

The following items will be found in your OMAP-L138 Development Kit. Many will be used initially in this Quick Start Guide.

OMAP-L138 Development Board

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

Optional:
USB mouse

microSD card + adapter
OMAP-L138 MCSDK
Linux™ file system
BIOS C6SDK
Code Composer Studio™ IDE v5
Code Gen Tools 7.3.1

Mini USB cable

Troubleshooting

If you do not have the USB-to-UART driver installed on your PC, download it from **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 TI OMAP-L138 processor visit: **www.ti.com/product/OMAP-L138** or to download the latest TI software, visit: **http://www.ti.com/tool/processor-sdk-omapl138**

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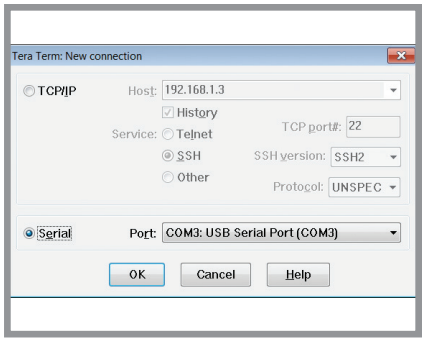
SPRW268A

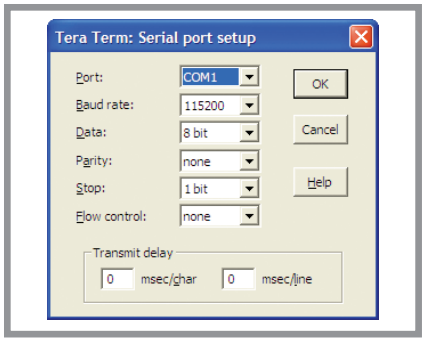
1 Set the DIP switch with 2, 3, 4 **ON** and 1, 5, 6, 7, 8 **OFF**.

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 Insert the microSD card into the SD slot.



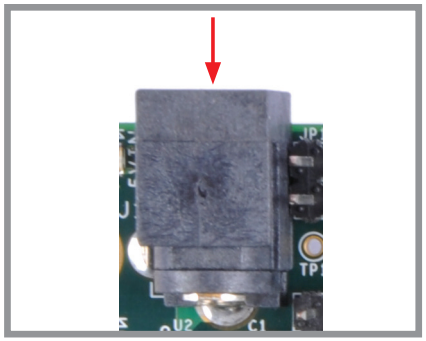
4 On the host computer, open a serial port terminal (like Tera Term or Hyperterminal for Windows® OS and minicom for Linux™ OS) and select the connection to the USB serial port.



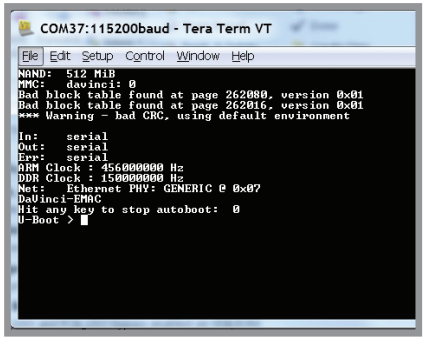
5 Set the baud rate to 115200, 8-bit data, no parity, 1 stop bit, no flow control. *Note: To do this in Tera Term, go to Setup -> Serial port and set the Baud rate as 115200 from the drop-down menu.*

6 Connect the appropriate adapter to the power supply.

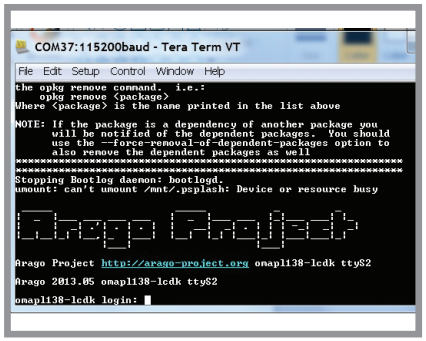
NOTE: TI recommends using an external power supply that complies with applicable regional safety standards such as (by example) UL, CSA, VDE, CCC, PSE, etc.



7 Connect power to the board and electric outlet.



8 Once the board is powered, you should see U-Boot messages on the serial console window. U-Boot will pause for a few seconds before booting Linux to give you the opportunity to stop and modify the booting process. The screen above shows a Tera Term serial console at this U-Boot pause phase. Hitting enter at this point will stop the booting process. If you do not hit enter, U-Boot will proceed with booting Linux.



9 Once booting continues, the serial console will display additional start-up messages until a Linux login prompt is shown. At this point, Linux is up and running with a complete file system loaded from the SD card and you are ready to begin developing.

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