To prepare your workstation for software development, power off the EVM, remove the SD card and insert it into your Ubuntu Linux workstation.

Note that this EVM comes with a coin battery holder. A coin battery is not necessary for normal operation of the EVM.

For more information on AM65x processors, including:
• User Guide      •  Software      •  How To      •  Design Files
Please visit www.ti.com/am65x

For support questions, please contact: support@ti.com or www.ti.com/e2e

For more details on Linux, refer to www.ti.com/processor_sdk_linux
For TI-RTOS, refer to www.ti.com/processor_sdk_rtos
For Android, refer to www.ti.com/processor_sdk_android

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AM65x/DRA80xM Evaluation Module
Manufactured by Mistral Solutions Pvt. LTD,  •  www.mistralsolutions.com

Caution: Caution Hot surface. Contact may cause burns. Do not touch.
Welcome to the AM65x/DRA80xM General Purpose (GP) Evaluation Module (EVM) Quick Start Guide. This guide is designed to help you through the initial setup of the board. This EVM allows you to experience Linux®, TI-RTOS or other operating systems (OS’s) that showcase the AM65x/DRA80xM Quad-Core Cortex®-A53, Dual-Core Cortex-R5F, gigabit PRU-ICSS (real-time industrial communications subsystem), and more. The EVM contains the following:

Hardware
- AM6548/DRA804M Quad Core Cortex®-A53 function equivalent processor
- 1-lane PCIe / USB 3.0 SerDes card
- 4GB DDR4 with ECC
- On board 16 GB eMMC
- On board 512Mb OSPI Flash

Printed Documents
- AM65x/DRA80xM GP EVM Quick Start Guide (this document)

Miscellaneous
- 1 SD card
- 1 USB 2.0 cable
- 1 Ethernet cable

Not included in box
The following hardware is not included in the box and must be procured separately:
1. Power supply. Use one of the following power supply options for powering up the IDK. Pick a power supply with all the applicable regional product regulatory/safety certification requirements such as UL, CSA, VDE, CCC, PSE, etc.
2. 1280 x 800 LCD Display Accessory Kit. The LCD Kit ships in a separate box (TI part number TMDSLCD1EVM).

Connector Specifications Examples
- Power DIN, 4 Pin +24VDC, 5A Output (Max) CUI Inc. SDI120-24-U-P51
- Barrel Plug, 2.5mm I.D. x 5.5mm O.D. x 9.5mm +24VDC, positive center, 2.71A Output (Max) CUI Inc. SDI65-24-UD-P6

The DIN connector power supply is recommended to provide enough power for applications that make use of the PCIe interface.

1. 1280 x 800 LCD Display Accessory Kit. The LCD Kit ships in a separate box (TI part number TMDSLCD1EVM).

1. Assemble the LCD Accessory Kit onto the main processor board by following the instructions included with the LCD Accessory Kit.
2. Connect the supplied USB debug cable to the USB connector labeled “UART” on the board. Connect the other end to your Linux PC.
3. Insert the SD card into the EVM. Alternatively, download and install the Processor SDK-Linux from http://www.ti.com/tool/processor-sdk-am65x, create a bootable SD card and insert it into the EVM.
4. Connect a power supply (not included) to the DIN connector or power jack on the EVM and plug it in to an AC power source. Do not connect both, only one power supply must be connected.
5. Turn on the EVM by sliding the toggle switch to the right. To turn off, slide the toggle switch the left.
6. You are now ready to explore the Linux demos which include various example applications. Click on any icon to start the demo.

Default setup (Linux boot from SD card)
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