## For more information: www.ti.com/am437xevm

### Linux™

You are now ready to explore the Linux demos which include various example applications. Click on any icon to start the demo and click "exit" (if available) to guit the demo.



Plug in the camera board  $\bigcirc$ (included) as shown and click on the camera demo icon to view two camera inputs on the screen. If the camera board is not plugged in, a single camera input will be displayed.

For more information on AM437x processors, including:

- User Guide
- Software

Please visit www.ti.com/am437x and www.ti.com/am437xevm

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

How Tos

Design Files

Provide feedback: Take this survey and tell us about your experience using the AM437x EVM: www.ti.com/survey

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**Begin development** 

To prepare your workstation for software development, power off the kit, remove the microSD card: insert it into the included SD card adapter (if applicable); and insert it into your PC. If your PC does not include an SD slot, USB SD card adapters are readily available. Follow the instructions below.

### Linux Software Development Kit

From a Linux host PC, insert the Linux µSD card into the PC, and from the START HERE folder, run setup.htm.

If you need help on setting up a Linux Host PC, please visit www.ti.com/startyourlinux.

Connect the supplied USB cable to the micro USB connector on the AM437x EVM and plug the other end to your PC.

Connect the supplied Ethernet cable to the RJ-45 jack on the AM437x EVM. Connect the other end of the cable to an Internetenabled router or Ethernet switch.



**TEXAS INSTRUMENTS** 

# AM437x Evaluation Module **Quick Start Guide**

Welcome to the AM437x General-Purpose (GP) Evaluation Module (EVM) Quick Start Guide. This guide is designed to help you through the initial setup of the EVM. This EVM allows you to experience Linux™ and other operating systems (OSs) that showcase the AM437x Cortex<sup>®</sup>-A9 processor, 3D graphics and more. The AM437x EVM contains the following:

- Hardware
- Sitara<sup>™</sup> AM437x Cortex-A9 processor
- TPS65218 power management I/C
- 7" capacitive touch LCD
- 2GB DDR3
- Two camera modules
- On-board NAND Flash and eMMC
- Audio input and output
- DCAN, UART, USB, Ethernet and HDMI connectors

- Printed documents
- AM43x GP EVM Quick Start Guide (this document)
- Miscellaneous
- Power supply with international adapters
- uSD card with Linux<sup>™</sup>
- uSD-to-SD card adapter
- UART serial cable
- Ethernet cable
- Micro USB 2.0 cable





### Default setup (OS boot from microSD card)



Verify all the DIP switches are set as shown (all ON). These switches are located on the back of the AM437x EVM.



Insert the Linux uSD card into the AM437x EVM as shown. The black surface should be facing up.



To turn on, slide the power switch (SW4) on the AM437x  $\mathbf{b}$ EVM to the left as shown. Both power LEDs (shown inside the red circle) will turn on. To turn off, slide the power button to the right.



Connect the supplied serial null modem cable to the UART DB-9 (J10) connector. Note: You must use the supplied cable or another serial null modem cable.



Connect the Ethernet cable to the RJ-45 jack located on the AM437x EVM. Connect the other end of the cable to an Internet-enabled router or Ethernet switch.



Connect the power cable to the power jack as shown and plug in to an AC power source.

Note: When powering this EVM, always use the supplied power supply (GlobTek GT-41081-1805 or CUI/V-Infinity Part Number EMSA050300-P6P-SZ. Model 3A-182WP05) or equivalent model having output voltage of +5VDC and output current max 3.0 Amp as well as the applicable regional product regulatory/safety certification requirements such as (by example) UL, CSA, VDE, CCC, PSE, etc.



Note that this EVM comes with a coin battery holder. A coin battery is not necessary for normal operation of the EVM. A coin battery (not included) can be inserted for testing ultra-low-power RTConly mode.

Note: This EVM is designed for optional use with a removable CR1632 UL recognized lithium battery (not supplied). Always use a CR1632VP Energizer 3V Lithium coin cell battery

### (http://data.energizer.com/PDFs/

cr1632.pdf) or similar CR1632 UL recognized battery with nominal voltage 3.0 Volts, capacity 130mAh, and discharge rate 190uA.

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