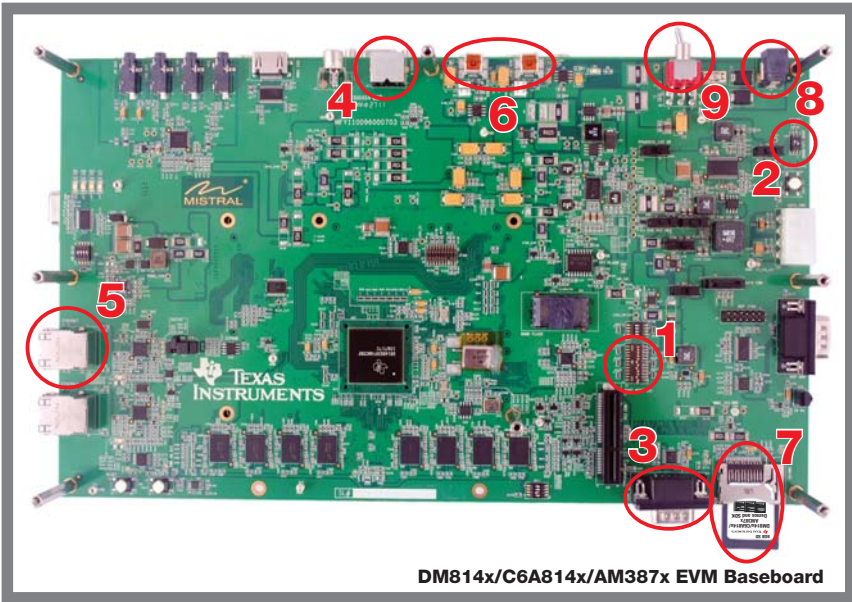
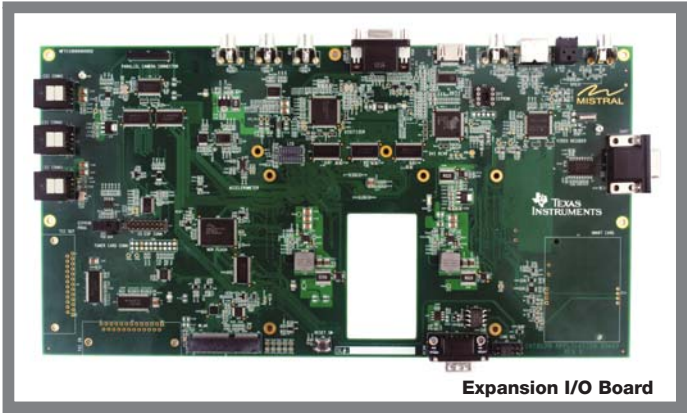


Welcome to the DM814x/C6A814x/AM387x Evaluation Module (EVM) Quick Start Guide. This guide is designed to help you through the initial setup of your EVM. This EVM allows you to experience numerous demonstrations that showcase the DM814x/C6A814x/AM387x processors. The DM814x/C6A814x/AM387 EVM includes:

- Hardware
  - DM814x/C6A814x/AM387x main board
  - Expansion I/O daughtercard
  - Interposer board and LCD
  - Serial cable
  - Ethernet cable
  - Audio cable
  - HDMI cable
  - Universal power supply with regional adapter
  - USB mouse
  - Mini USB to USB adaptor cable
  - SD card reader (plugs into USB port on PC)
  - SD card: Contains Linux™ Software Development Kit (SDK) and example applications
- Printed documents
  - DM814x/C6A814x/AM387x EVM Quick Start Guide (this document)
  - Linux SDK SD card content sheet
  - Software license agreement
  - Ubuntu 10.04 LTS (on CD)
- Software and soft copy documents
  - DM814x/C6A814x/AM387x Software Development Kit (on SD card)
  - Sourcery G++™ evaluation tools from CodeSourcery

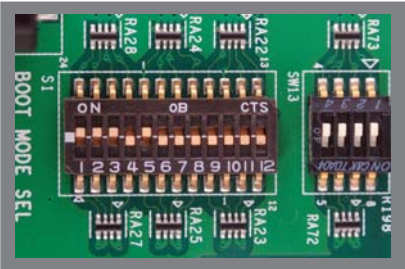


DM814x/C6A814x/AM387x EVM Baseboard

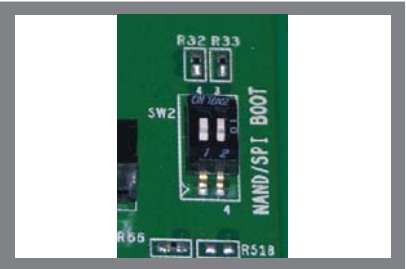


Expansion I/O Board

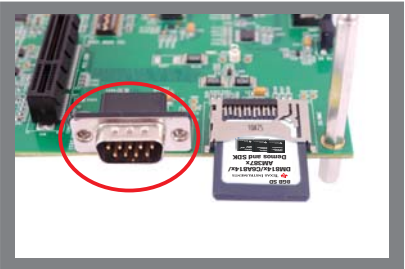
### Default setup (Linux boot from SD card)



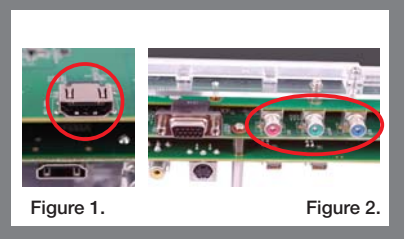
**1** For SD boot set up, configure switches 1, 2, 3, 5 = ON; all other switches OFF



**2** Configure SW2 switches (for NAND and SPI) as OFF.



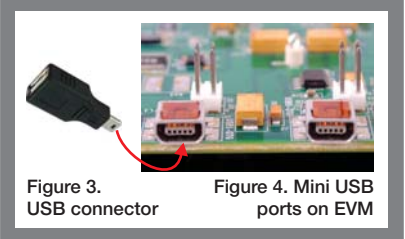
**3** Connect supplied serial cable to UART (P2). Connect the other end of the serial cable to a PC. This step is not required for initial EVM start-up, it is optional. This step enables viewing of console messages on a PC terminal and changing some of the default parameters on the EVM.



**4** To enable HD, user will need to provide an external HD monitor with an HDMI input to view the encode/decode demo. Connect the supplied HDMI cable to the HDMI connector (Figure 1). Connect the other end of the cable to the user-supplied HD monitor. Optionally, users may choose to view the encode/decode demo on the supplied LCD. For this, connect the component cable to the TVP7002 port on the board (Figure 2).



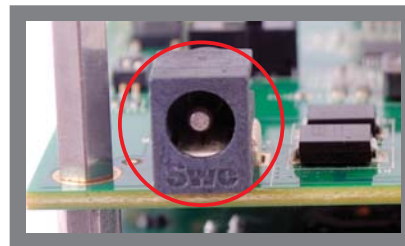
**5** Connect the supplied Ethernet cable to the RJ-45 jack on the board (J14 or J27). Connect the other end of the cable to an Internet-ready connection (router/switch). This step is not required for initial EVM start-up, it is optional. This step allows proper execution of example applications that use Internet access.



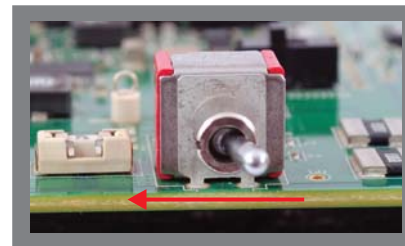
**6** Connect the supplied USB adaptor (Figure 3) to the mouse. Then connect the mini side of the adaptor to the USB port (Figure 4) MI (J2 or J3).



**7** Connect the supplied SD card into the SD card slot, with SD card label facing up (J15).



**8** Connect the supplied 12-V DC power supply to the EVM (J4).



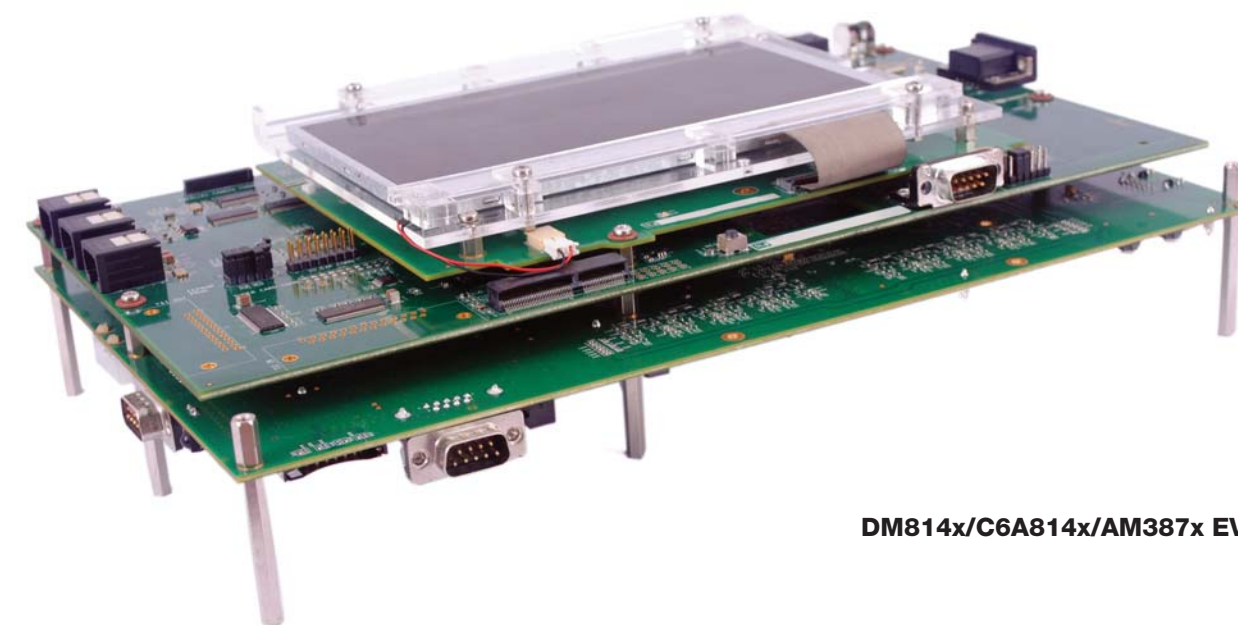
**9** Turn power switch (SW1) in the direction of the arrow shown.



**10** Application Launcher should display on the LCD within approximately one minute. Note: By default, the HDMI output is set to 1080p. To change output resolution, please refer to the Software Development Guide (provided in the SDK installer on the SD card). (Please note: Application Launcher icons on LCD may vary from picture shown here. This is shown for reference only.)



**11** When you are ready to start programming the DM814x/C6A814x/AM387x EVM, please remove power to the board, remove the Linux™ SDK SD card and insert into the included and unplugged USB SD card reader. On a Linux host PC running the Ubuntu 10.04 distribution, insert the reader into any unused USB port and from the START HERE folder, run setup.htm.



DM814x/C6A814x/AM387x EVM



For tips and tricks and more documentation, please visit [processors.wiki.ti.com](http://processors.wiki.ti.com) and select your platform.

For support questions, please contact: [support.ti.com](http://support.ti.com) or [e2e.ti.com/dm814x](http://e2e.ti.com/dm814x), [e2e.ti.com/c6a814x](http://e2e.ti.com/c6a814x), [e2e.ti.com/am387x](http://e2e.ti.com/am387x)

For more information on the DM814x/C6A814x/AM387x Evaluation Module please visit: [www.ti.com/evm8148](http://www.ti.com/evm8148)

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# DM814x/C6A814x/AM387x Evaluation Module Quick Start Guide