

# K2Gx High Secure (HS) Evaluation Module (EVMK2GXS) Quick Start Guide



Welcome to the K2G High Secure (HS) Evaluation Module (EVM) Quick Start Guide. This guide is designed to help you through the initial setup of the EVMK2GXS. The K2G HS EVM contains the following:

- **Hardware**

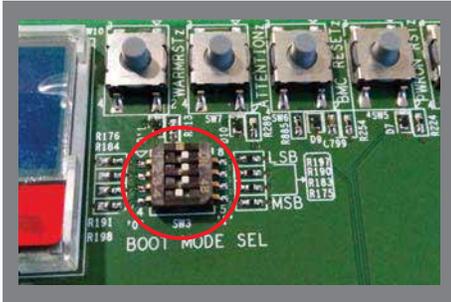
- K2G KeyStone™-based SoC X66AK2G12 with ARM® Cortex® -A15 at 1 GHz and C66x DSP at 1 GHz
- 2-GByte DDR3L with ECC
- 2-Gbit NAND Flash
- 128-Mbit SPI NOR Flash
- 512-Mbit QSPI
- 128-kByte I<sup>2</sup>C EEPROM
- 16-GB eMMC
- Micro-SD-card slot
- Gigabit Ethernet
- PCIe card slot
- HDMI transmitter
- Audio codec AIC3106
- COM8 connector
- DCAN and MLB connectors
- USB host and USB dual-role
- Audio expansion and serial expansion headers
- Board Management Controller (BMC) for board management features like system status and boot mode control
- On-board XDS200 emulator and MIPI 60-pin connector for external emulator
- RS-232 DB9 connector
- Socket to allow replacement of SoC

- Printed document
  - K2G HS EVM Quick Start Guide (this document)
- Miscellaneous
  - USB Mini B to A plug type cable
  - USB Micro B to A plug type cable
  - USB Micro B to A socket type cable
  - Ethernet cable
  - Female-to-female DB9 serial RS-232 cable
  - μSD card 32 GB, memory card reader and μSD-to-SD adapter
  - Connection for LCD display with capacitive touch (display is sold separately)
  - Hex wrench for access to socket

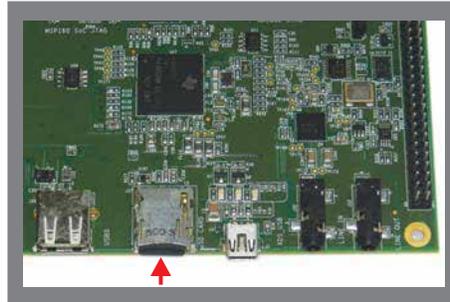


## Instructions to boot out-of-box demonstration

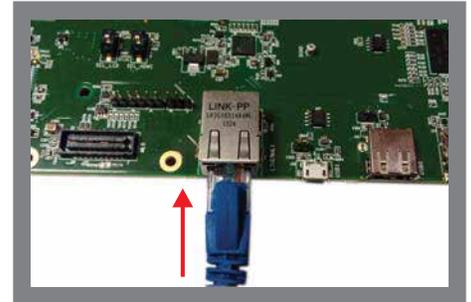
Note: For TI RTOS users, please refer to the RTOS Getting Started Guide at [http://processors.wiki.ti.com/index.php/Processor\\_SDK\\_RTOS\\_Getting\\_Started\\_Guide](http://processors.wiki.ti.com/index.php/Processor_SDK_RTOS_Getting_Started_Guide)



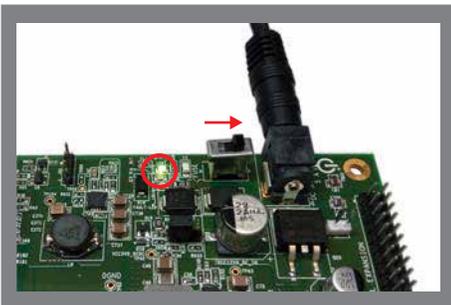
**1** Set DIP switch (SW3) to '0111' (MSB first) as shown to select MMC/SD boot mode.



**2** Prepare a Linux  $\mu$ SD card after downloading the software from [www.ti.com/mysecuresoftware](http://www.ti.com/mysecuresoftware) and following the instructions located there.



**3** Using the Ethernet cable, connect the EVM to a network containing a PC running a DHCP server.



**4** Connect 12 V power cable to the DC jack (J3). Slide the power switch SW1 to the "ON" position marked on the silkscreen. LED LD9 will light up.



**5** Note the IP address displayed on LCD screen. Enter this address into a web browser connected to the same network as the EVM.



**6** The host PC will connect to the EVM, and the demonstration may now be run.

The EVM is delivered with an 66AK2G12 component installed in the socket. Due to shipping, the component may need to be resealed for proper operation. If the EVM does not boot, see the EVM User's Guide for instructions on reseating the K2G.

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