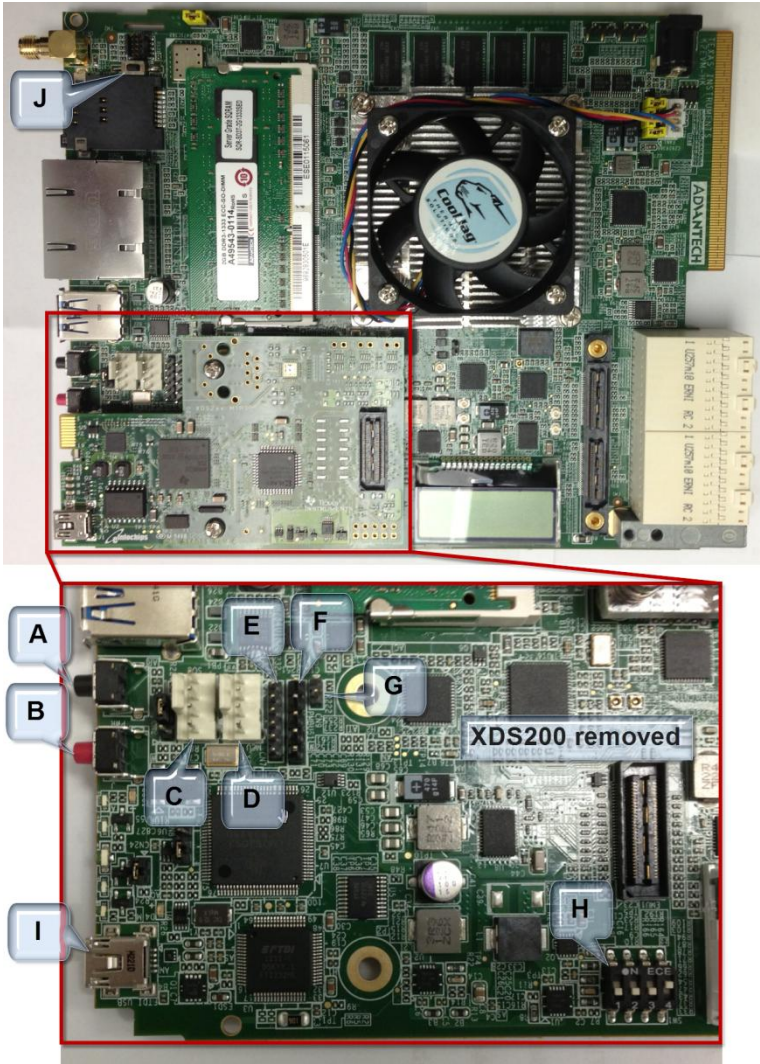




# XTCIEVMK2X Evaluation Module Quick Start Guide

# XTCIEVMK2X Evaluation Module



A	No Functionality	F	Reserve for factory programming
B	1 press: safe shutdown of SOC; 2 presses within 0.5sec: warm reset; 3 presses with 0.5 sec: full reset; 4 presses with 0.5 sec: cancel reset	G	MCU Reset Jumper for BMC field update
C	COM2: SoC UART Console	H	Dip switch for boot configuration: 0001: No Boot/JTAG DSP Little Endian Boot mode 0010: Uboot mode
D	COM1: MCU UART Console	I	Provide 2 console ports in USB interface ( same as "C" and "D")
E	Reserve for factory programming	J	MCU Reset: Resets the microcontroller and will reset the entire board

Two boot procedures are described below, one for Uboot and one for CCS.

1) Uboot Steps:



1

Ensure EVM configuration switch are set as shown for NOR SPI Boot.



2

Connect the USB mini-B cable to FTDI\_USB.



3

Open HyperTerminal, select COM port, configure settings.



# 4

Insert DC-in cable to apply 12V power.

```

File Edit Setup Control Window Help
U-Boot 2013.01-00007-g4454041-dirty <Feb 04 2013 - 11:49:45>
I2C: ready
DRAM: 128 MiB
WARNING: Caches not enabled
NAND: 512 MiB
*** Warning - bad CRC, using default environment

Net: Ethernet PHY: 88E1111 @ 0x01
TCI6614-EMAC
Warning: failed to set MAC address

Hit any key to stop autoboot: 0
TCI6638 EUM # █

```

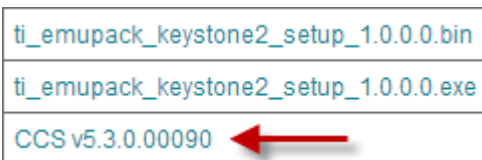
# 5

Hit any key to stop auto-boot when prompted. EVM is now ready for Uboot applications.

## MCSDK Downlink Page:

[http://software-dl.ti.com/sdoemb/sdoemb\\_public\\_sw/mcsdk/latest/index\\_FDS.html](http://software-dl.ti.com/sdoemb/sdoemb_public_sw/mcsdk/latest/index_FDS.html)

## 2) CCS Steps:



# 1

Update or install CCS (V5.3.0.00090 or later) from MCSDK download page.



# 2

Ensure EVM configuration switch are set as shown for No Boot/JTAG DSP Little Endian Boot mode.



# 3

Connect the USB mini-B cable to XDS200.



# 4

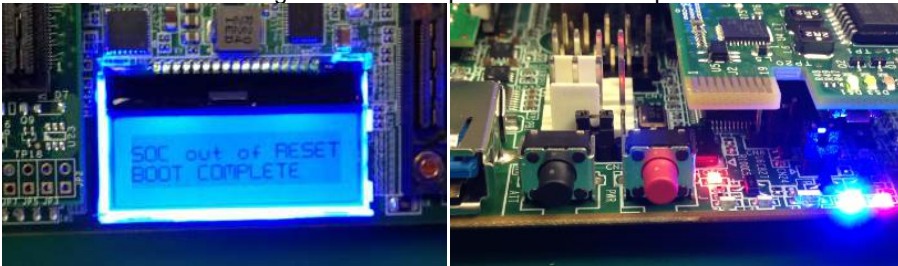
Insert DC-in cable to apply 12V power.

# 5

Launch CCS. After CCS is opened, EVM is now ready for use.

## Note:

1. Refer to the following LCD and LED pictures for correct power-on behavior.



## Getting Started:

Please see the 'Getting Started' chapter in the MCSDK User Guide:

<http://processors.wiki.ti.com/index.php/MC>

[SDK User Guide for KeyStone II.](#)

## Important Notes when handling the EVM:

- Plug in all the cables before powering ON the EVM to ensure proper grounding.
- Do not unnecessarily flex the boards, while inserting cables. Excessive flexing can break the PCB traces.
- Use proper ESD procedures when handling the EVM.
- Warning: Some components on the EVM may be too hot to touch with your bare hand when power is on.

## Online Documentation

- TMS320C663X processor website  
<http://www.ti.com/product/tci6634k2k>  
<http://www.ti.com/product/tci6636k2h>  
<http://www.ti.com/product/tci6638k2k>
- MCSDK website for updates  
[http://processors.wiki.ti.com/index.php/MCSDK\\_User\\_Guide\\_for\\_KeyStone\\_II](http://processors.wiki.ti.com/index.php/MCSDK_User_Guide_for_KeyStone_II)
- CCS v5  
[http://processors.wiki.ti.com/index.php/Category:Code\\_Composer\\_Studio\\_v5](http://processors.wiki.ti.com/index.php/Category:Code_Composer_Studio_v5)

## C663X EVM Information:

<http://www.advantech.com/Support/TI-EVM/default.aspx>

## This link contains:

- Hardware & Software details
- User Guide
- Technical Reference Manual

## TCIEVMK2X EVM Support:

Please write to [EVM667xsupport@advantech.com.tw](mailto:EVM667xsupport@advantech.com.tw) for technical queries related to this EVM.



## TI Worldwide Technical Support

### Internet

TI Semiconductor Product Information Center Home Page  
[support.ti.com](http://support.ti.com)

TI Semiconductor KnowledgeBase Home page  
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