Getting Started

The EVM ships with a Power On Self Test (POST) flashed into I2C EEPROM. The POST automatically executes when the board is powered ON. POST performs memory test and internal EMAC loopback test. At power ON, the user LEDs are OFF by default. The LEDs blink and turn OFF to indicate successful DSP booting.

After booting, User LED-1 turns ON to indicate successful RAM test and User LED-2 turns ON to indicate successful internal EMAC loop-back test. These LEDs remain ON to indicate success of both the tests.

Please refer to the EVM User Guide for software installation and other details.

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

• TMS320C6678 processor website
  http://focus.ti.com/docs/prod/folders/print/tms320c6678.html

• MCSDK website for updates
  http://focus.ti.com/docs/toolsw/folders/print/bioslinuxmcsdk.html

• CCS v5
  http://processors.wiki.ti.com/index.php/Category:Code_Composer_Stu dio_v5

This link contains

• Hardware & Software details
• User Guide
• Technical Reference Manual
• TMS320C6678 Datasheet

TI Worldwide Technical Support

Internet
TI Semiconductor Product Information Center Home Page
support.ti.com
TI Semiconductor KnowledgeBase Home page
support.ti.com/sc/knowledgebase

Product Information Centers

Americas
Phone +1(972) 644-5580   Fax +1(972)927-6377
Internet/Email support.ti.com/sc/pic/americas.htm

Europe, Middle East and Africa
Phone
European Free Call	00800-ASK-TEXAS
	(00800 275 83927)
International	+49 (0) 8161 80 2121
Russian Support	+7 495 981 0701

Note: The European Free Call (Toll Free) number is not active in all countries. If you have technical difficulty calling the free call number, please use the international number above.
Fax	+(49) (0) 8161 80 2045
Internet	support.ti.com/sc/pic/euro.htm

Japan
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International	+81-3-3344-5317
Domestic	0120-81-0036
Internet/Email	
International	support.ti.com/sc/pic/japan.htm
Domestic	www.tij.co.jp/pic

Asia
Phone
International	+91-80-413816651-	
Domestic	Toll-Free-Number	Toll-Free-Number
Australia	800-999-084	Malaysia 1-800-80-3973
China	800-820-8682	New Zealand 0800-446-934
Hong Kong	800-96-5941	Philippines 1-800-765-7404
India	1-800-425-7888	Singapore 800-886-1028
Indonesia	001-803-8861-1006	Taiwan 0800-006800
Korea	080-551-2804	Thailand 001-800-886-0010

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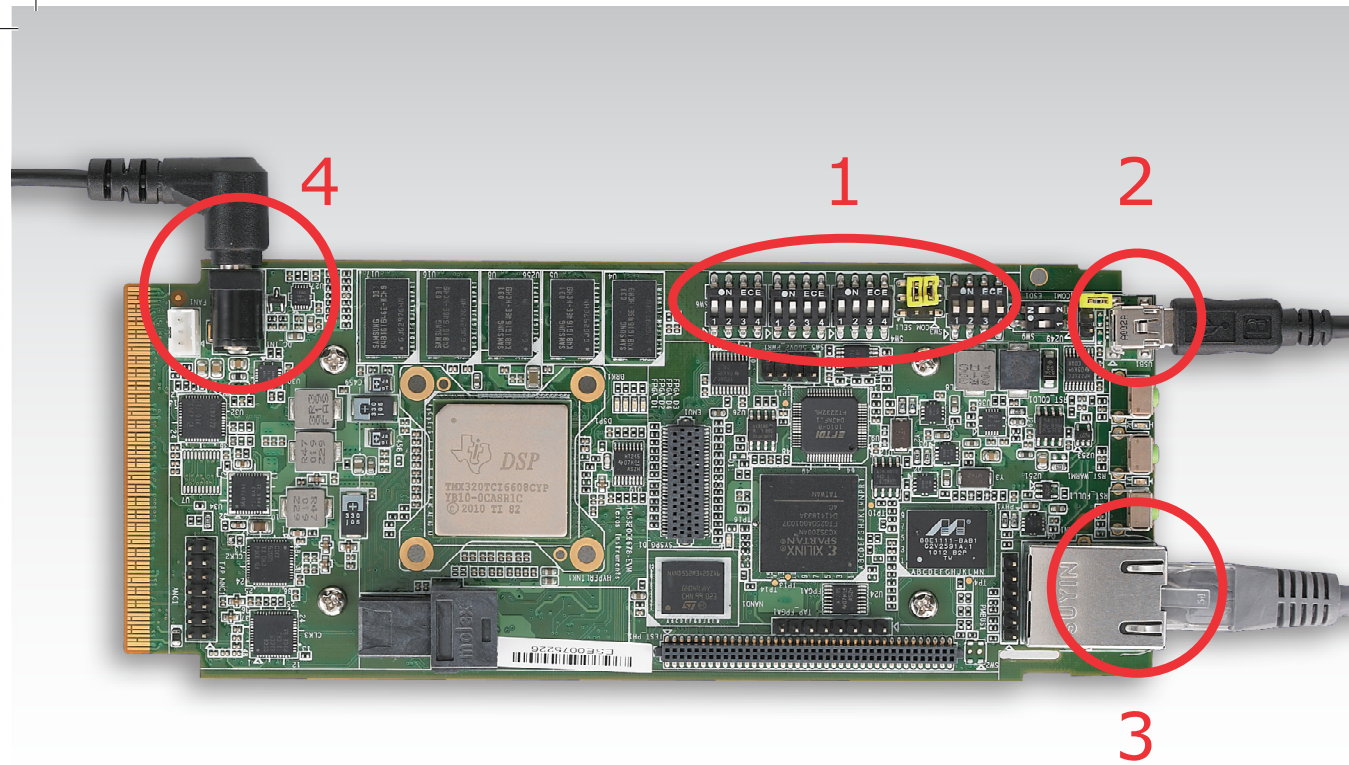
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TMS320C66x
Multicore DSP

TEXAS INSTRUMENTS

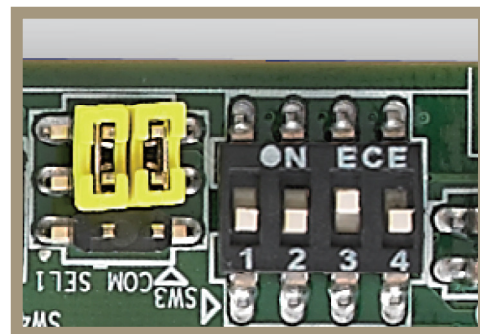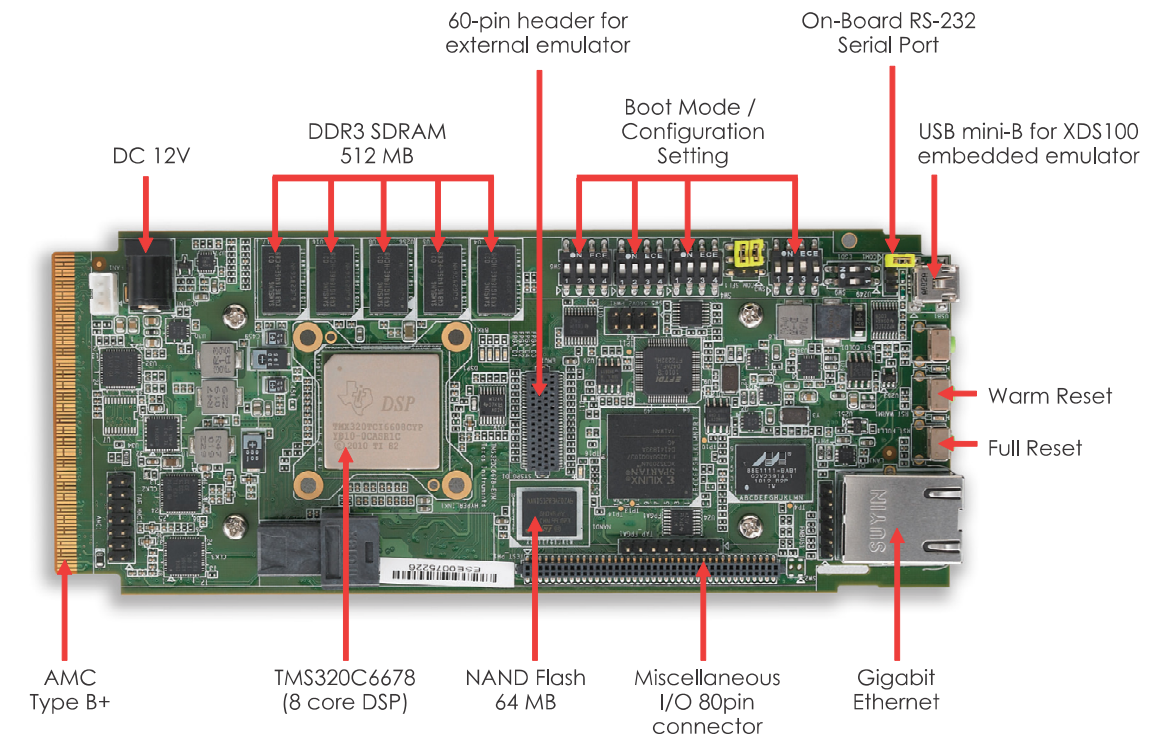# TMS320C66x Evaluation Module
Quick Start Guide

TEXAS INSTRUMENTS

TMDXEVM6678L
TMX320C6678 Evaluation Module

- 60-pin header for external emulator
- On-Board RS-232 Serial Port
- DC 12V
- DDR3 SDRAM 512 MB
- Boot Mode / Configuration Setting
- USB mini-B for XDS100 embedded emulator
- Warm Reset
- Full Reset
- AMC Type B+
- TMS320C6678 (8 core DSP)
- NAND Flash 64 MB
- Miscellaneous I/O 80pin connector
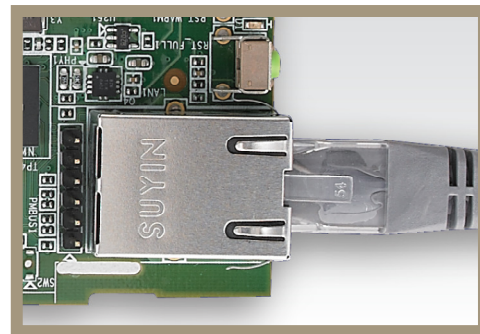- Gigabit Ethernet

1 Ensure EVM configuration switch (SW3) are set as shown to run Power On Self Test (POST)
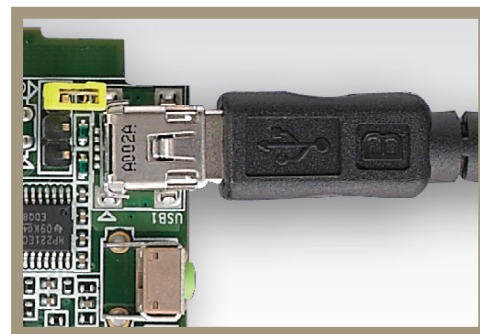
2 Connect the USB mini-B cable to USB1 plug for on board embedded emulation and serial console port, as shown in figure. (For use with CCS debugger only)

3 Connect Ethernet switch / Router / PC to the Giga Ethernet port (LAN1) of EVM6678 board using an Ethernet cable to access EMAC0
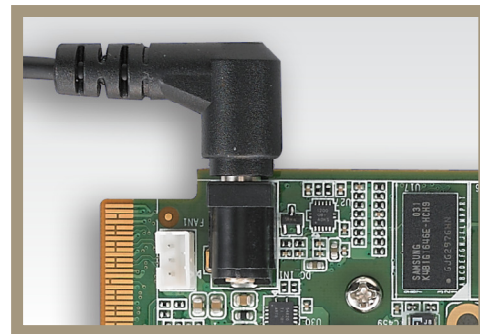
4 Connect the 12V DC power adapter (supplied with the kit) to power jack (DC_IN1)

The TMDXEVM6678L (Evaluation Module) kit includes

- TMX320C6678 Evaluation Module
- Power adapter and power cord
- USB cable for on-board JTAG emulation (XDS100v1)
- Ethernet cable
- RS-232 serial cable
- Software (DVD) and documentation
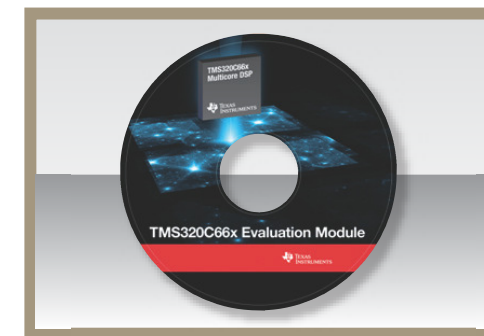
5 Load the DVD on your computer and follow the instructions provided in the "Read_Me_First.txt" file