

TMDSDC3359 Data Concentrator Evaluation Module Quick Start Guide

Congratulations on your purchase of the TMDSDC3359 Data Concentrator Evaluation Module. This guide is designed to help you through the initial setup of the EVM. This EVM allows you develop data concentrator applications based on multiple communication standards. The EVM supports the Linux™ operating system and showcases an AM335x Cortex-A8 processor, a power-line communication system-on-module (SOM), gigabit Ethernet and much more. The TMDSDC3359 EVM contains the following:

Hardware

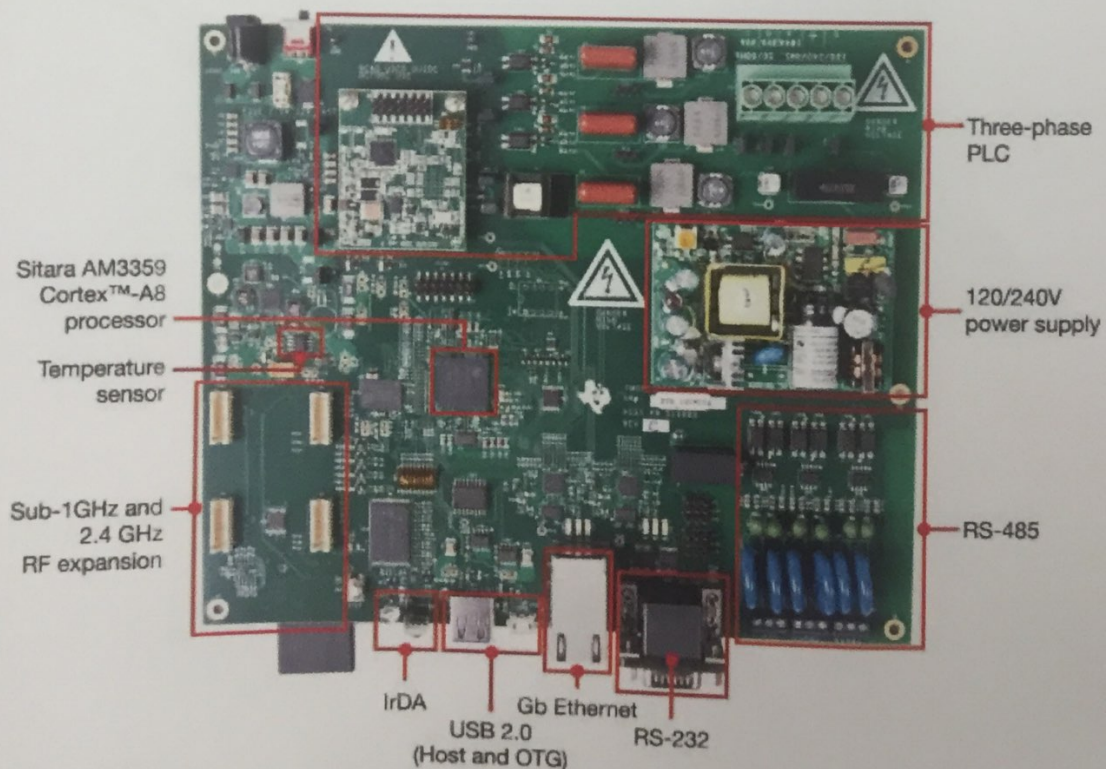
- Sitara™ AM3359 Cortex™-A8 processor, up to 800 MHz
- Power-line communication system-on-module with C2000™ Piccolo™ F28PLC83 and AFE031 analog front-end
- Sub-1GHz and 2.4GHz low-power RF expansion slots
- TPS65910A power management IC
- 256MB DDR2
- 256MB NAND Flash
- 2 Gb Ethernet ports

Printed Documents

- TMDSDC3359 Data Concentrator Evaluation Module Quick Start Guide (this document)

Miscellaneous

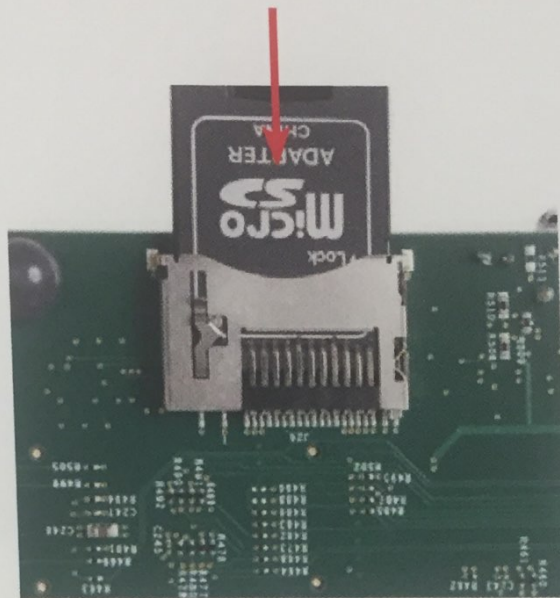
- Power supply with international adapters
- 1 SD card (Data Concentrator demo)
- Ethernet cable
- RS-232 cable



Demo setup (OS boot from SD card)

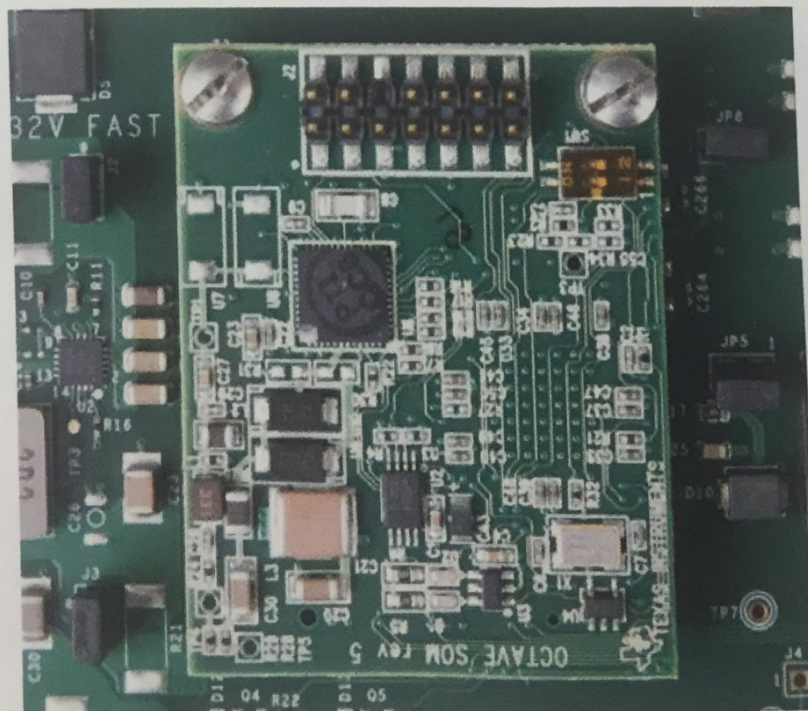
1

Insert the SD card into the SD slot on the back of the board.



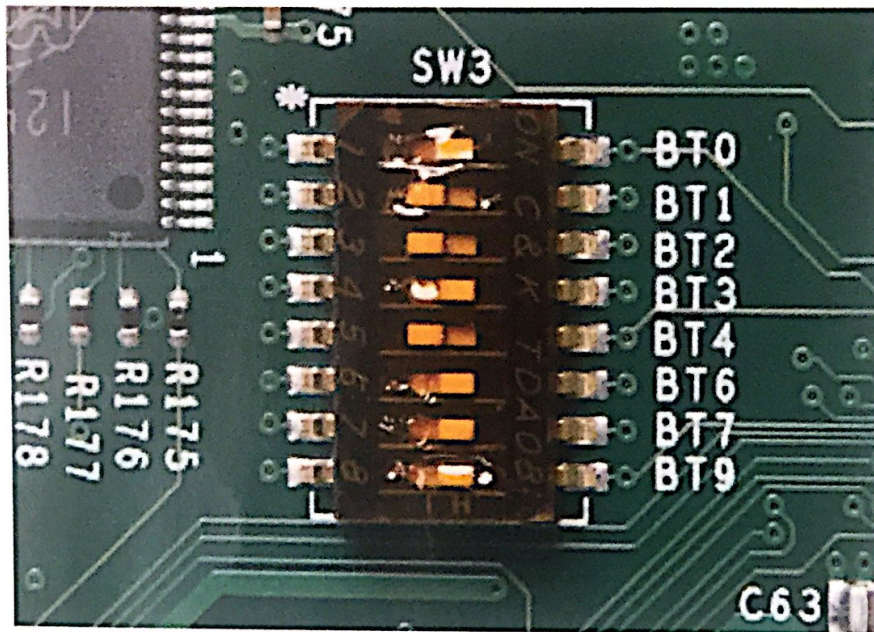
2

Attach the PLC system-on-module.



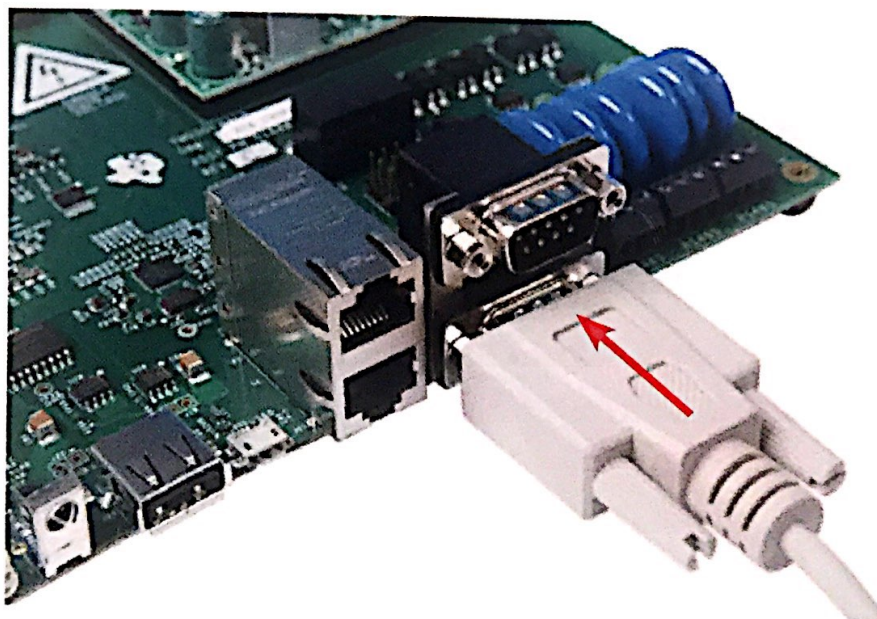
3

Verify all DIP switches are set as shown in the picture.



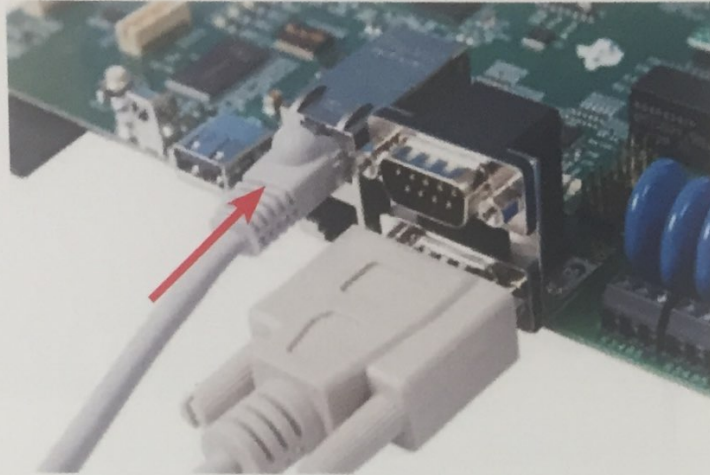
4

Connect the supplied serial cable to the UART connector. Connect the other end to a serial port on host PC or workstation.



5

Connect the Ethernet cable to the RJ-45 jack on the board.



6

Select blade for your region and attach to power supply.



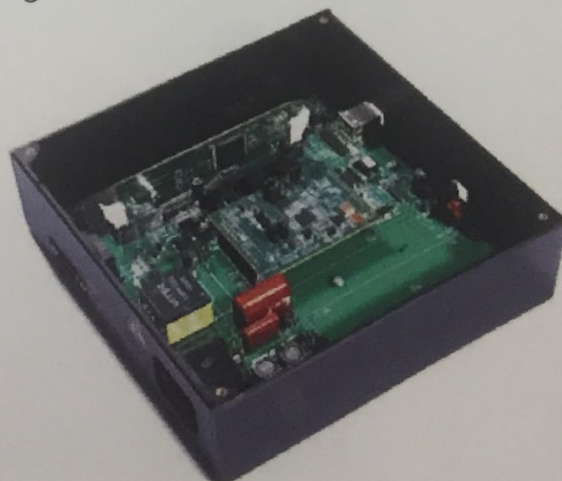
7

(Optional) Setup PLC kit following its instructions.

CAUTION



Electric shock possible when connecting board to live wire. Board should be handled with care by professional. For safety, use of isolated test equipment with over-voltage/over-current protection is highly recommended.



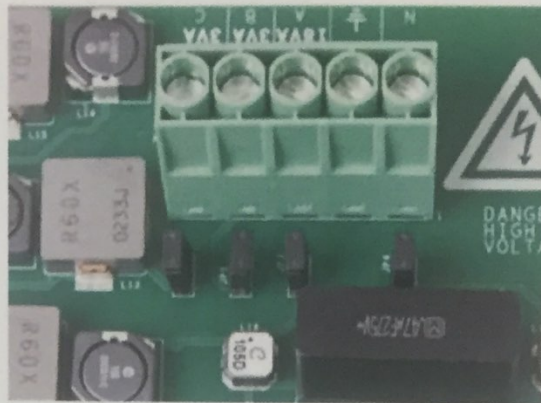
8

(Optional) Connect PLC kit to EVM using phase B or C input.

CAUTION

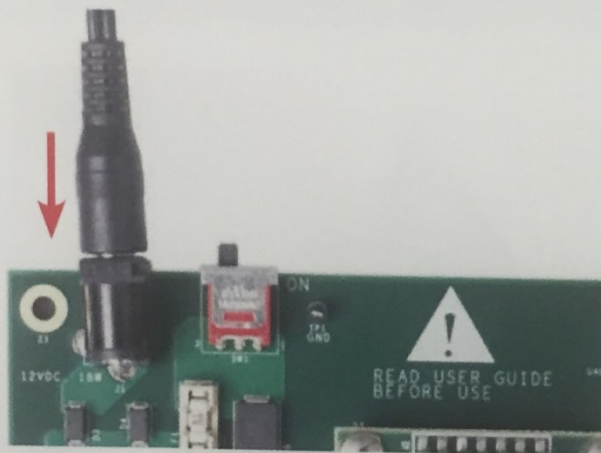


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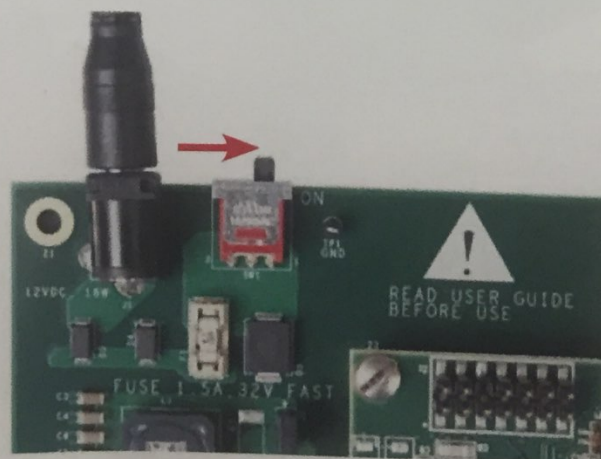
9

Connect power supply to board and electric power outlet.



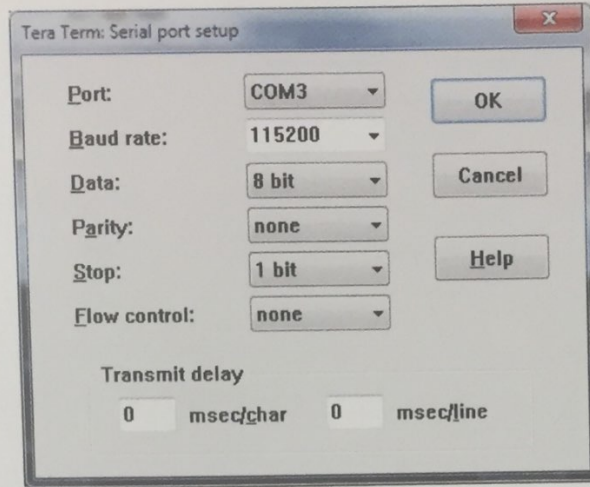
10

Set the power switch to the ON position to power on the board.



11

Configure the host PC or workstation serial port with the settings shown.



12

On the host PC or workstation, wait for the board to boot and log in as "root" (no password). Follow the instructions on screen.

