Welcome to the AM572x Industrial Development Kit (IDK) Quick Start Guide. This guide is designed to help you through the initial setup of the board. This IDK allows you to experience industrial applications which showcase the AM572x’s Dual-Cortex-A15 and TI C66x processors, PRU-ICSS real-time industrial communications subsystem and more. The AM572x IDK contains the following:

- Sitara™ AM572x Dual-Cortex-A15 processor
- TPS659037 power management IC
- 10” capacitive touch LCD (not included. Available separately as TMDXIDK57X-LCD.)
- 2 channels of 1GB DDR3 memory with ECC on channel 1
- HDMI connector
- 256-Mb Quad SPI NOR Flash memory
- 16-GB eMMC memory
- USB1 Super-Speed (USB3.0) host port
- USB2 High-Speed (USB2.0) host/device port
- 2 Gigabit Ethernet ports
- 4 10/100 Industrial Ethernet ports (4 Industrial Ethernet ports option is available by disabling the 2 Gigabit Ethernet ports due to PINMUX availability)
- 1 PROFIBUS port
- Haptics
- 6 Tricolor industrial and status LEDs
- 1 RS-485 port header

- 1 DCAN port header
- 1 miniPOE x1 connector
- On-board XDS100 JTAG emulator
- On-board USB serial port
- MIPS JTAG connector for external JTAG emulator
- Camera module (attaches to camera header)
- PRU-ICSS I/O to headers for real-time development
- Inputs and outputs for PRU-ICSS code testing and SoC general use: 8 inputs from header and 8 outputs to LEDs and header

Printed documents
- AM572x IDK Quick Start Guide (this document)
- Terms and conditions
- Printed documents

Miscellaneous
- µSD card (blank)
- µSD-to-SD card adapter
- 1 micro USB 2.0 cable, 6 ft

Default setup (OS boot from microSD card)

1. Insert the µSD card into the IDK. Please note that the µSD card is provided blank. The latest software version is available at www.ti.com/AM572xIDKSW

2. Connect the power cable to the power jack on the board and plug into an AC power source.

Note: When powering the IDK, always use the recommended power supply (GlobTek Part Number TR9CA6500LCP-N, Model Number GT-43008-3306-1.0-T3) or equivalent model having output voltage of +5VDC and output current max 6.5 Amp as well as the applicable regional product regulatory/safety certification requirements such as (by example) UL, CSA, VDE, CCC, PSE, etc.

3. Connect the supplied USB Micro-B to Type-A cable to the microUSB JTAG port J19 and plug the other end into your PC/laptop USB port.

4. Optional: Connect the camera module to the camera header of the IDK, with the camera sensor facing away from the IDK.

5. Push the power on push button (SW3) to run the IDK.
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