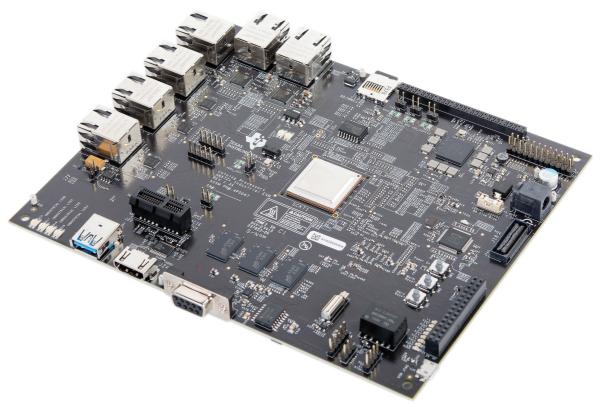
For more information: www.ti.com/am572xidk



Actual product may vary from images



AM572x Industrial Development Kit Quick Start Guide

Additional resources

For more information on AM57x processors, including:

- User Guide
- How Tos
- Software
- Design Files

Please visit www.ti.com/am57x and www.ti.com/am572xidk

For support questions, please contact: support@ti.com or www.ti.com/e2e.

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SPRW282B

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:

Hardware

- Sitara[™] AM572x Dual-Cortex-A15 processor
- TPS659037 power management I/C
- 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

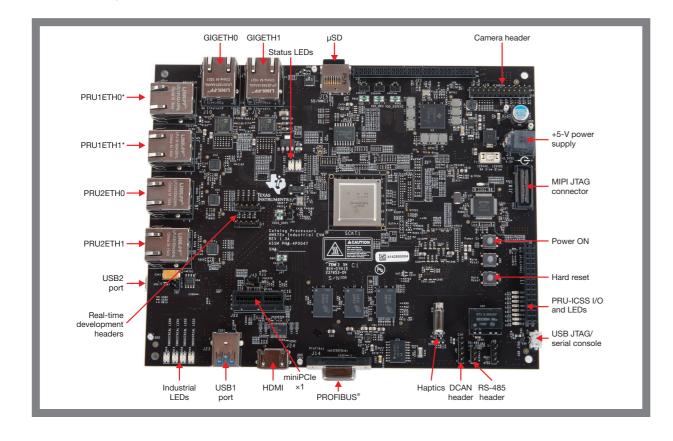
- 1 DCAN port header
- 1 miniPCle ×1 connector
- On-board XDS100 JTAG emulator
- On board USB serial port
- MIPI JTAG connecter for external JTAG emulator
- Camera module (attaches to camera header)
- PRU-ICSS I/O to headers for real-time development
- Inputs and outputs for PRU-ICSS code testing and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

Printed documents

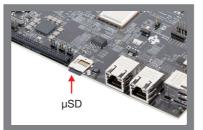
- AM572x IDK Quick Start Guide (this document)
- Terms and conditions

Miscellaneous

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

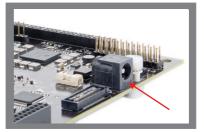


Default setup (OS boot from microSD card)



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

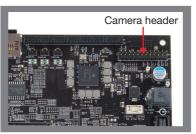


Connect the power cable to the power jack on the board and plug into an AC power source.

Note: When powering this 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 requirements such as (by example) UL, CSA, VDE, CCC, PSE, etc.



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.





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



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

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