



A Development Platform for Space Grade

FPGA systems

Board Features

- ADM-SDEV-BASE - FPGA Board
- ADM-SDEV-CFG - XRTC Configuration FMC
- Space-Grade Power and Temperature Sensing solutions from Texas Instruments
- FMC+ HPC Interface
- FMC LPC Interface
- XRTC Compatible Configuration FMC Interface
- SODIMM Memory Socket (8GB Fitted)

FPGA Features

- 3x PCI Express Gen3 cores

Summary

The **ADA-SDEV-KIT2** is a Development Kit for the Xilinx Kintex UltraScale XCKU060 Space-Grade FPGA.

Modular design with Industrial XCKU060 in -1 speed grade, XRTC Compatible Configuration Module, two FMC sites, DDR3 DRAM, System Monitoring and reference Space-Grade Power and Temperature Sensing solutions from Texas Instruments.

See <http://www.ti.com/tool/ALPHA-XILINX-KU060-SPACE> for further details.

Target Devices

Xilinx Kintex UltraScale: XCKU060-1-1 (1FFVA1517)

LUTs = 221k(221k)

FFs = 663k(663k)

DSPs = 2760(2760)

BRAM = 38.0Mb(38.0Mb)

3x PCI Express Gen3 cores

Application Data Memory

1x SODIMMs 1G x 72 (8GB) DDR3-1600

FPGA Configuration Memory

QSPI 2x256MB Flash Memory

FPGA Configuration Modes

configured by XRTC compatible Configuration FMC or through JTAG socket on the Configuration FMC

Deliverables

ADA-SDEV-KIT2

One Year Warranty

One Year Technical Support

Example Vivado Projects

Reference Schematics Available

Board Format

Development Platform

Input/Output Interfaces

24x High-speed Serial IO

160/80x Single Ended/Differential Pair I/O

4x High-speed Serial IO

68/34x Single Ended/Differential Pair I/O

1x PCI Express x1 Interface

1x USB Interface

2x SATA Interfaces

1x QSPI Flash Interface

Environmental Specification

Temperature Ranges

Cooling Option	Operating Temperatures		Storage Temperatures	
	Min	Max	Min	Max
ACO	0°C	55°C	-40°C	85°C

Operating Humidity : Up to 95% (non-condensing)

EMC Standards

FCC 47CFR Part 2

EN55022:2010 Equipment ClassB

Ordering Information

Order Code: ADA-SDEV-KIT2/C

Option	Code	Description of Options
Note		This is the Rev2 assembly, contact sales for other configuration options. For rev1 (ADA-SDEV-KIT) pricing and availability contact sales.

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