



## ADA-SDEV-KIT - A Development Platform for Space Grade FPGA systems

### Board Features

- ADA-SDEV-BASE - FPGA Board
- ADA-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

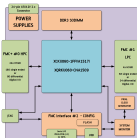
- 3x PCI Express Gen3 cores

### Summary

The **ADA-SDEV-KIT** is a Development Kit for the Xilinx Kintex UltraScale XQRKU060 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

FFs = 663k

DSPs = 2760

BRAM = 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-KIT  
 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-KIT**