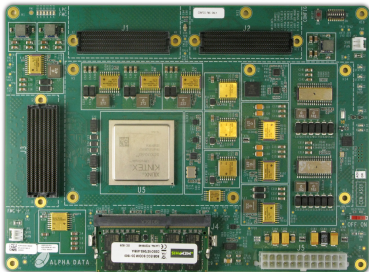


AD01366-2



## Prime Application

Kintex UltraScale Space Development Kit

## Board Features

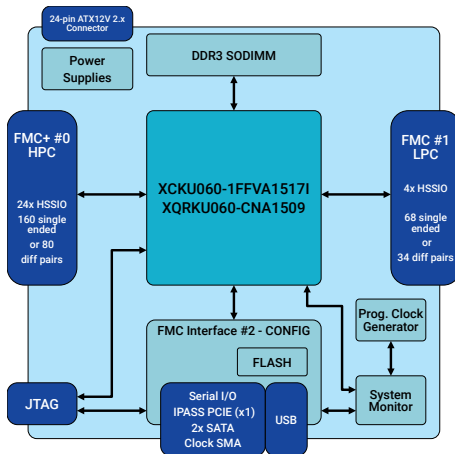
- ADM-SDEV-BASE - FPGA Board
- ADM-SDEV-CFG - XRTC Configuration FMC
- Space-Grade Power and Temperature Sensing solutions from Texas Instruments
- FMC+ HPC Interface
- FMC LPC Interface
- XRTC Compatible Configuration FMC Interface
- SODIMM Memory Socket (8GB Fitted)

## Summary

The **ADA-SDEV-KIT2** is a Development Kit for the Xilinx Radiation Tolerant 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-I, XQRKU060-(CA1509)  
(1FFVA1517)

LUTs = 221k FFs = 663k DSPs = 2760  
BRAM = 38.0Mb(38.0Mb)

3x PCI Express Gen3 cores

## Application Data Memory

1x 1G x 72 (8GiB) DDR3-1600

## Configuration Memory

QSPI 2x256MB Flash Memory

## 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  
WxHxD = 165mm x mm x 225mm  
Weight = Without Heatsink 290g

## Input/Output Interfaces

### FMC+ HPC Interface

High-speed Serial IO  
Single Ended/Differential Pair I/O

### FMC LPC Interface

High-speed Serial IO  
Single Ended/Differential Pair I/O

### XRTC Compatible Configuration FMC Interface

PCI Express x1 Interface  
USB Interface  
SATA Interfaces  
QSPI Flash Interface

## Environmental Specification

Cooling Option	Operating Temperatures		Storage Temperatures	
	Min	Max	Min	Max
AC0	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**

Note

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