

AD01366-2



Prime Application

Kintex® UltraScale™ Space Development Kit

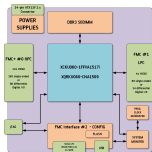
Board Features

- 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 lab development kit for system developers planning to use the Radiation Tolerant Xilinx™ Kintex® UltraScale™ XQRKU060-1 FPGA. The kit is manufactured with the commercial equivalent XCKU060-1-I device.

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 Device

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

LUTs = 221k FFs = 663k DSPs = 2760
BRAM = 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

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.

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