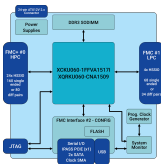


AD01366-2



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 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.alpha-data.com/tool/ALPHA-XILINX-KU060-SPACE> for further details.

Target Devices

Xilinx Kintex UltraScale
XCKU060-1-I, XQRKU060-(CA1509)
(1FFVA1517)

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

3x PCI Express Gen3 cores

Application Data Memory

1x 1G x 72 (8GB) 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 Interface
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.

UK Office

Address: Suite L4A, 160 Dundee Street,
Edinburgh, EH11 1DQ, UK
Telephone: +44 131 558 2600
Fax: +44 131 558 2700
email: sales@alpha-data.com

USA Office

611 Corporate Circle, Suite H
Golden, CO 80401
(303) 954 8768
(866) 820 9956 - toll free
sales@alpha-data.com