

Summary

The ADM-PCIE-KU3 is a high performance reconfigurable Half-Length, low profile x16 PCIe form factor board based on the Xilinx Kintex UltraScale range of Platform FPGAs.

The ADM-PCIE-KU3 features two independent channels of DDR3 memory capable of 1600MT/s (fitted with two 8GB SODIMMs), SATA connections, High Speed I/O via Dual QSFP+ ports supporting up to 40G Ethernet or 4 x 10G Ethernet links, voltage/temperature/current control and monitoring, air-cooled heat sink with removable fan. Please contact Alpha Data Sales for no-fan ordering option.

Features

Applications

- Data Center
- Network Accelerator
- High Performance Computing (HPC)
- Data Processing
- System Modelling
- Market Analysis

Target Device(s):

Xilinx Kintex UltraScale: XCKU060 (FFVA1156)

Memory:

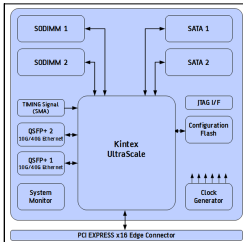
FLASH - 1GBit of BPI x 16 configuration flash

Front I/O:

Dual QSFP+ cages for high speed optical communication including 10 and 40 Gigabit Ethernet.
Timing Signal Input (SMA)

Other I/O:

Dual 6pin SATA Interfaces



Specification

Product Name	ADM-PCIE-KU3
Target Device(s)	Xilinx Kintex Ultrascale XCKU060 (FFVA1156)
Memory	FLASH - 1GBit of BPI x 16 configuration flash
Front I/O	Dual QSFP+ cages for high speed optical communication including 10 and 40 Gigabit Ethernet. Timing Signal Input (SMA)
Other I/O	Dual Spin SATA Interfaces
Special Features	Dual QSFP+ cages for high speed optical communication including 10 and 40 Gigabit Ethernet Dual SATA Interfaces
Clocks	All Clocks derived from a local 100MHz LVDS oscillator with 20ppm 2x 100MHz - PCI Express Clocks and user design 2x 400MHz - Memory Interfaces and user design 1x 200MHz - IODELAY reference 1x 156.25MHz - 10GbE SFP 1x 150MHz - SATA Interface 1x 100MHz - User Design 1x 250MHz - User design 1x 100MHz - FPGA Configuration Clock
Device Configuration	FPGA Configured via the on board Configuration Flash Flash programmed via JTAG
Software	Reference Design Package available separately
Environmental	Temperature: Air cooled option (AC0): Operating Temperature 0° to +55°C EMC: FCC 47CFR Part 2 EN55022 Equipment Class B RoHS Compliance: All standard products are RoHS compliant. Please contact Alpha Data Sales for details of Tin/Lead build options.

Ordering Code
ADM-PCIE-KU3(M)(F)

Memory Option	M	blank = 16GB, /32GB = 32GB
Fan Fitted	F	blank = Fan Fitted, /NF = No Fan Fitted

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