

## Applications

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

## Board Features

- 2x QSFP+ Cages
- 2x 8GB DDR3 ECC-SODIMMs
- 2x SATA Interfaces
- System Monitor
- Heatsink with optional fan

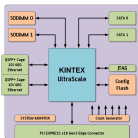
## FPGA Features

- 3x PCI Express Gen3 cores

## 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.



## Target Device

Xilinx Kintex UltraScale: XCKU060-2 (FFVA1156)

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

3x PCI Express Gen3 cores

## Application Data Memory

2x ECC-SODIMMs 1G x 72 (8GiB) DDR3-1600

## FPGA Configuration Memory

BPI 1GBit Flash Memory  
Configured as 4 x 256MBit zones

## FPGA Configuration Modes

From onboard Flash  
Over JTAG

## Deliverables

ADM-PCIE-KU3 Board  
One Year Warranty  
One Year Technical Support  
Xilinx Vivado board file  
Xilinx SDAccel DSA

## Host Interface

PCI Express Gen3 x8 (also supports 2nd x8 PCIe hard macro or soft x16 cores)

## Board Format

1/2 Length low profile x16 PCI Express Card  
WxHxD = 174mm x 68.9mm x 32.5mm  
Weight = 220g

## Communications Interfaces

2x QSFP 4x10Gbps - User Configurable, includes 10/40G Ethernet

## Input/Output Interfaces

### Other Interfaces

Dual SATA Interfaces (6Gbps)  
External Sync (PPS) interface

**Support**

Reference Design Package available separately

**Environmental Specification****Temperature Ranges**

Operating Temperature Range : 0°C to +55°C

Storage Temperature Range : -40°C to +85°C

Operating Humidity : Up to 95% (non-condensing)

**EMC Standards**

FCC 47CFR Part 2

EN55022:2010 Equipment ClassB

EN55024:2010

EN60950-1:2006 (+A12:2011)

**Ordering Information****Order Code: ADM-PCIE-KU3(M)(F)**

Option	Code	Description of Options
Memory Option	M	blank = 16GB, /32GB = 32GB
Fan Fitted	F	blank = Fan Fitted, /NF = No Fan Fitted

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