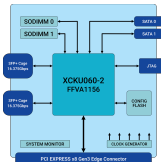


AD01284



### Applications

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

### 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 QSPF+ 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 1G x 72 (8GiB) DDR3-1600

### Configuration Memory

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

### Configuration Modes

From onboard Flash  
 Over JTAG

### Deliverables

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

### Board Features

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

### 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 QSPF 4x10Gbps - User Configurable, includes 10/40G Ethernet

### Input/Output Interfaces

#### Other Interfaces

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

### Environmental Specification

Cooling Option	Operating Temperatures		Storage Temperatures	
	Min	Max	Min	Max

### 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