

## Applications

- High Performance Data Processing
- Machine Learning Inference
- Signal Processing
- High Performance Computing (HPC)
- Network-attached acceleration

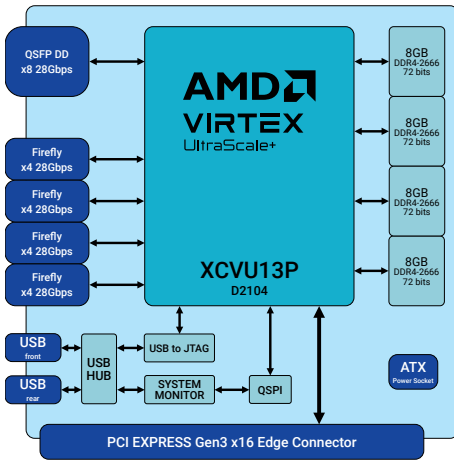
## Board Features

- AMD Virtex UltraScale+ XCVU13P
- PCI Express Gen3 x16
- 4 banks DDR4-2666 8GB + ECC (1G x 72)
- QSFP-DD (8x 28Gb/s)
- 4x Firefly (16x 28Gb/s)
- Single slot width
- Passive heatsink (active fan optional)

## Summary

The **ADM-PCIE-9V7** is a high performance re-configurable PCI Express format board based on the AMD Virtex UltraScale Plus XCVU13P-2 Platform FPGA (XCVU9P-2 optional, please contact sales for more information).

The ADM-PCIE-9V7 provides the highest Ultrascale+ DSP Multiply-Accumulate performance possible in a PCIe form factor making the board the ideal solution for high density deployments of machine learning inference and advanced high performance signal processing applications.



## Target Device

AMD Virtex UltraScale+  
XCVU13P-2 (D2104)

LUTs = 1728k FFs = 3456k DSPs = 12288  
BRAM = 94.5Mb URAM = 360Mb

4x PCI Express® Gen3 x16  
8x 150G Interlaken  
12x 100G Ethernet w/KR4 RS-FEC  
12288x DSP Slices

## Application Data Memory

4x 8GBytes @ 72bit wide ECC DDR4-2666

## Configuration Memory

QSPI 2Gb (x4 Interface) Flash Memory

## Configuration Modes

Via QSPI or JTAG

## Deliverables

ADM-PCIE-9V7 Board  
One Year Warranty  
One Year Technical Support

## Host Interface

PCI Express Gen3 x16

## Board Format

Full Height, 266.7mm long single-slot

## Input/Output Interfaces

### QSFP-DD

QSFP-DD Cage 8 lanes @ 28Gbps/lane

### Firefly

4 lanes per Firefly Interface @ 28Gbps/lane (up to 112Gbps total bandwidth per Firefly connection in each direction)

## 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: ADM-PCIE-9V7(V)(C)**

Option	Code	Description of Options
FPGA Type	V	Blank = VU13P-2, /VU9P-2 = variant with XCVU9P-2
Cooling Options	C	Blank = single-slot passive cooling, /DS = double-slot active cooling, /DS/NF = double-slot passive cooling
note		Contact Sales for other ordering options