



FPGA Computing Accelerator

DATA BRICK

【Overview】

- The PALTEK DATA BRICK is a **PCI Express Gen3** card featuring Xilinx 16nm **Virtex UltraScale PLUS VU3P-2 FPGA**
- The DATA BRICK Featuring 8GB DDR4-memory(MT-2400,with ECC),
- 4 sites of SAMTEC Firefly Connector that enables data transfer up to 96Gbps by one site.
- Two FMC(HPC) Connectors
- High Efficient heat sink

【Applications】

Network Acceleration

Machine learning

High Frequency Trading(HFT)

Big Data Analysis

5G Mobile Telecom

Industrial Inkjet Printer

High-definition Imaging Processing

Specication

Product Name	DS-VU3P-PCIE**
Target Device(s)	XCVU3P-2FFVC1517I
Interface	PCI Express Gen3×16
Memory	DRAM:DDR4-SDRAM MT-2400 8GB(standard with ECC), 16GB(Option W/O ECC due to memory controller limitations) Flash:1Gb on board
Maim IOs	4× SAMTEC Firefly Connectors(up to 96Gbps/Connector) 2× VITA57.1 FMC Connectors
Software	Sample FPGA design Vivado16.4
Enviroment	Operating Temp: 0 to 40℃ RoHS Compliant
Dimensions	257mm×120mm(PCI card edge include)

Ordering Information

DS-VU3P-PCIE(1)(2)	
(1)Memory	8:8GB DDR4 SO-DIMM with ECC 16:16GB DDR4 SO-DIMM with ECC(due to memory controller limitation, works as without ECC)
(2)Cable	E:4×SAMTEC Firefly Electrical Cables(bidirectional,28 Gbps) O:4×SAMTEC Firefly Optical Cables (directional, 14 Gbps)