## **NetFPGA SUME**

# **NetFPGA**

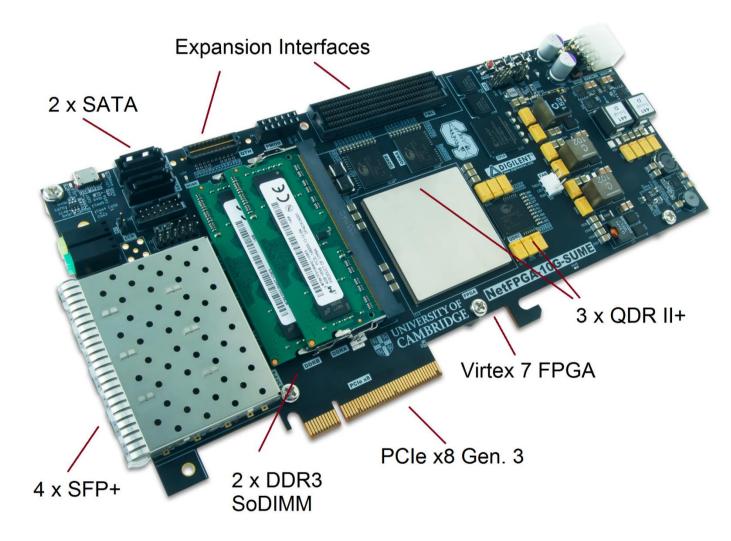
### http://www.netfpga.org

## **Open Source Network Hardware**

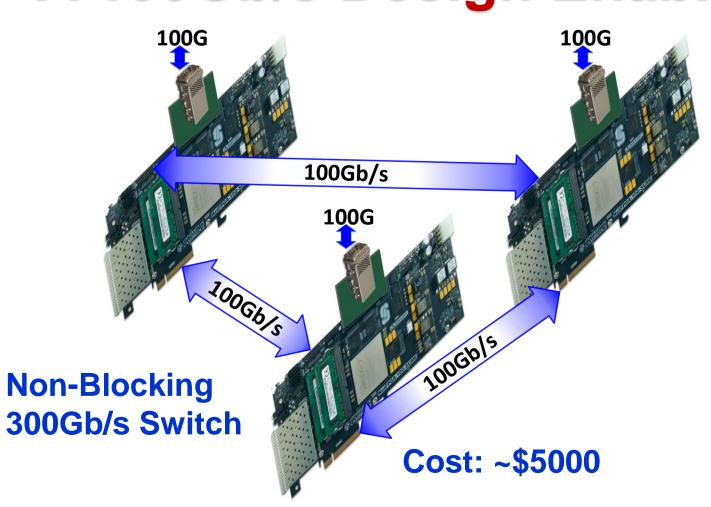
The NetFPGA project provides a flexible research and teaching tool — permitting instrumentation and prototyping of hardware-accelerated networking systems running at line rate.

#### **Main Features**

- Virtex-7 690T FPGA
  - 693K Logical Elements
  - 51Mb On-Chip Memory
- 2 x 4GB DDR3 SoDIMM, 1866MT/s
- 3 x 72Mb QDR II+, 500MHz
- PCle x8 Gen. 3 Host Interface
- 4 x 10Gb/s SFP+ Ethernet Ports
- 18 x 11.3Gb/s Expansion Serial Links
- Fabric Mezzanine Card (FMC) Interface
- 2 x SATA
- Micro SD
- 128MB FLASH



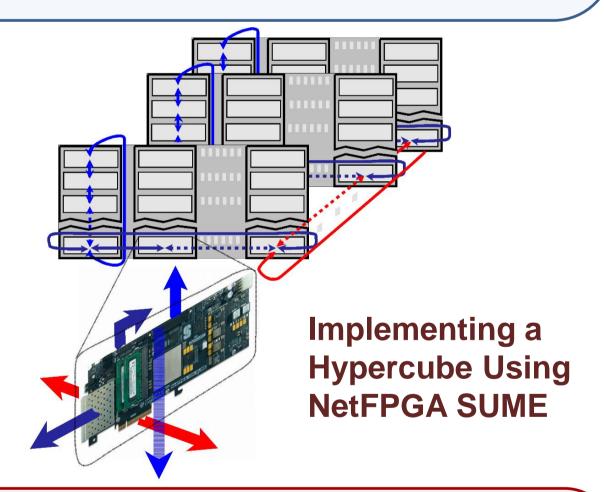
# A 100Gb/s Design Enabler





#### Using NetFPGA-SUME:

- ✓ Permits replacement of physical-layer
- ✓ Provides high-speed expansion interfaces with standardised interfaces
- ✓ Allows researchers to design custom daughterboards
- ✓ Permits closer integration



#### **Example Use Cases**

- Stand Alone Device
- PCIe Host Interface
- 100Gb/s Switch
- Physical Layer and Media Access Control
- Novel Interconnect

Support for the NetFPGA SUME project has been provided by the following companies and institutions













