

385A *FPGA Accelerator Card*

New Standard in Price Performance

» 8X Peak TFLOPS

Altera Arria 10 FPGAs include thousands of IEEE754-compliant floating-point DSP cores that deliver up to 1.5 TeraFLOPs, and provide best performance per computing Watt

» 1.8X Bigger FPGA

More FPGA fabric provides more room for additional accelerator functions

» 4X Network Bandwidth

- » NIC Form Factor
- » (2) QSFP Ports configurable as:
 - (2) 40GbE QSFP ports (native)
 - (2) 1/10 GbE SFP ports (with adapter)
 - (8) 1/10 GbE ports (with cable)

» **33% More Memory Bandwidth**

8 GBytes DDR3 memory @ 2133 MT/s



Our Latest Generation FPGA Accelerator Offers Drastically Improved Performance



OpenCL



Arria® 10

**The Leader in FPGA
Accelerated Computing**



Nallatech

a **molex** company

OpenCL Programmable



Nallatech leads the industry with OpenCL™ programmable FPGA solutions, opening the performance of FPGA computing to Software Engineers

OpenCL is the first open-source, unified C-based programming model for accelerating algorithms on heterogeneous CPU-GPU FPGA platforms



The Altera SDK for OpenCL allows the easy implementation of applications onto FPGAs, providing a much faster and higher level software development flow

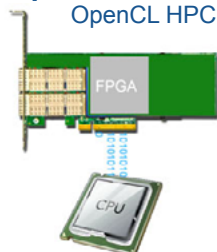
Learn more, visit:
www.Altera.com/OpenCL



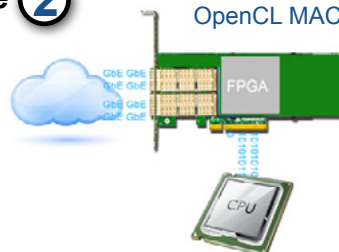
Several Nallatech FPGA Accelerators are available with OpenCL Board Support Packages (BSPs), optimized for Compute and Network acceleration

Learn more, visit:
www.Nallatech.com/OpenCL

Mode ① Compute Accelerator: OpenCL HPC BSP



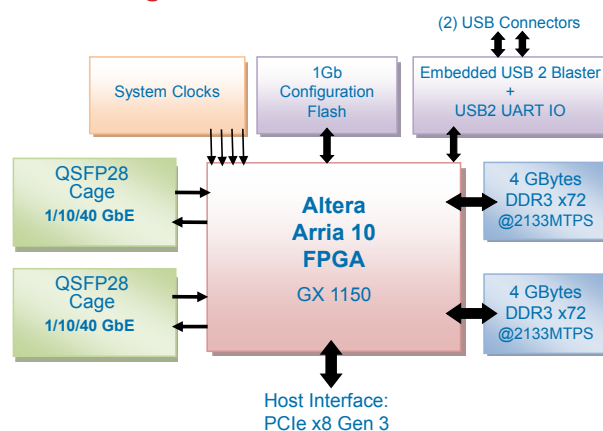
Mode ② Network Accelerator: OpenCL MAC BSP



Model Information

Product	385A
Part Number	P385A-115-11A-10
Configuration	<ul style="list-style-type: none"> • Arria 10 1150 GX FPGA • Dual 40G QSFP28 Ports • NIC Form Factor • 2 Banks 4G DDR3 SDRAM @ 2133 MTPS • PCIe x8 Gen 3 • Active Cooling / Passive Cooling Available Upon Request • 1/2 Height, 1/2 Length, Single Width PCIe Card (NIC Size)
Software & Options	<ul style="list-style-type: none"> • Altera Quartus Software Development Kit Edition w/ OpenCL SDK • HPC BSP (Co-Processor) Included with Card Purchase • MAC BSP (Network Enabled) • QSFP to SFP Adapter

Block Diagram



Turnkey Integrated Platforms Available



International Distributors

sky blue
microsystems

Sky Blue Microsystems GmbH
Geisenhausenerstr. 18
81379 Munich, Germany
+49 89 780 2970, info@skyblue.de
www.skyblue.de

ZERIF
TECHNOLOGIES LTD.
A SKY BLUE COMPANY, FOUNDED 1999

In Great Britain:
Zerif Technologies Ltd.
Winnington House, 2 Woodberry Grove
Finchley, London N12 0DR
+44 115 855 7883, info@zerif.co.uk
www.zerif.co.uk