OPEN
Compute Project
OCP U.S. SUMMIT 2017
Santa Clara, CA

Designing Open Source Hardware to Inspire an Ecosystem

Mark Shaw

Director, Azure Cloud Hardware Infrastructure

OPEN HARDWARE. OPEN SOFTWARE. OPEN FUTURE.

OPEN Compute Project

PROJECT OLYMPUS – OPEN SOURCE HARDWARE

Next-gen Cloud Hardware

Open sourcing leading edge Hyperscale cloud hardware currently under development at Microsoft

Development Model

New collaboration model with OCP community – co-develop open hardware at cloud speed

Industry Ecosystem

Bootstrap a vibrant ecosystem in OCP for the next generation of datacenter hardware

https://github.com/opencomputeproject/Project_Olympus

PROJECT OLYMPUS BASE

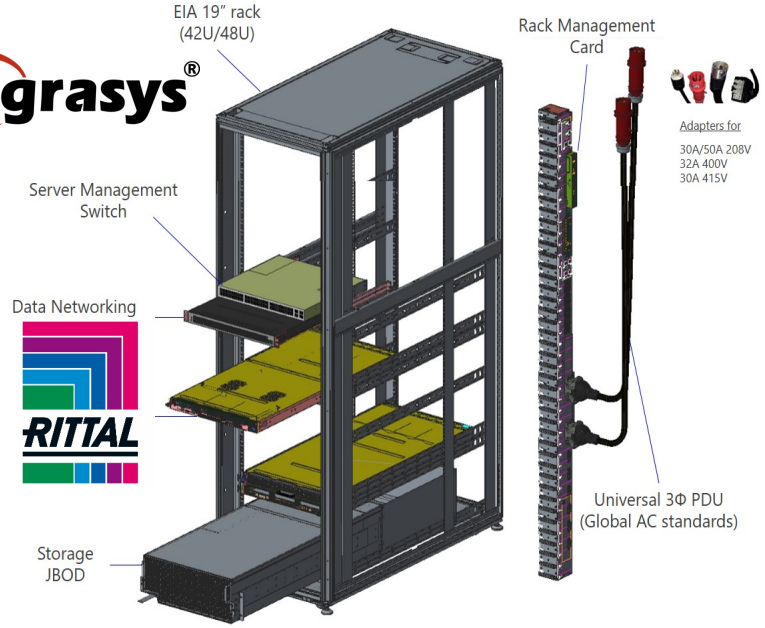
PROJECT OLYMPUS BASE ECOSYSTEM

wiwynn®

intel®

flex

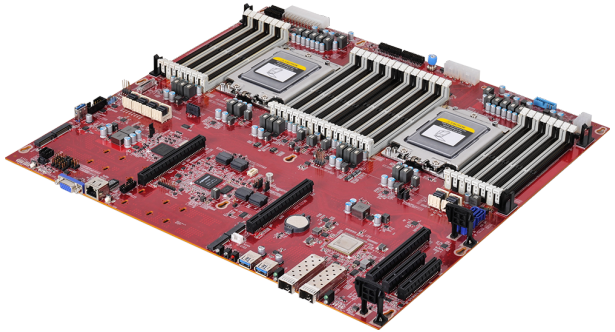
ingrasys®



NEW MOTHERBOARDS

DROP IN OR ADAPT TO PROJECT OLYMPUS SERVER CHASSIS

AMD



CAVIUM Inventec

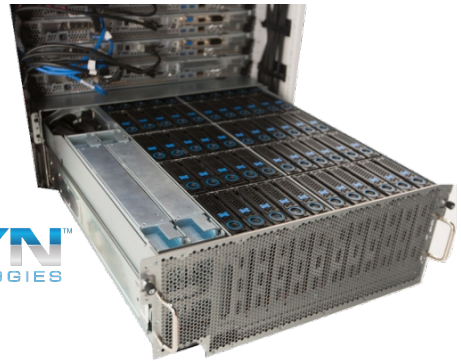
QUALCOMM

STORAGE MODULES

HIGH DENSITY HDD, HIGH PERFORMANCE FLASH

- 88 HDDs
- 1.2+ PB

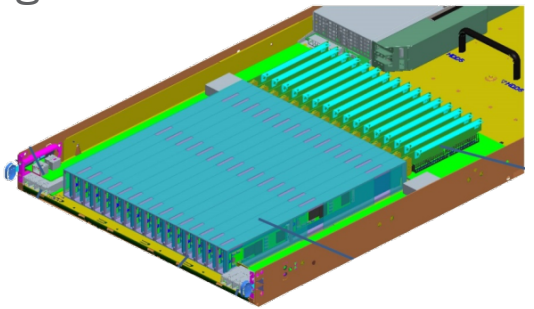
Quanta



ARTESYN™
EMBEDDED TECHNOLOGIES

- 64 NVME M.2
- 64 – 256 TB
- 16 Hot-Plug M.2 Carriers

Partner soon to be announced



ARTIFICIAL INTELLIGENCE
CLOUD COMPUTING

PROJECT OLYMPUS HYPERSCALE GPU ACCELERATOR – HGX-1

NVIDIA

ingrasys®

Pascal P100 with NVLINK

Pascal P100 with PCIe

UNIVERSAL POWER

UNIVERSAL PDU TECHNOLOGY MOVING INTO THE ENTERPRISE

GEIST
Future Thinking • Solutions Today

HOW TO DOWNLOAD

COMMUNITY PARTICIPATION

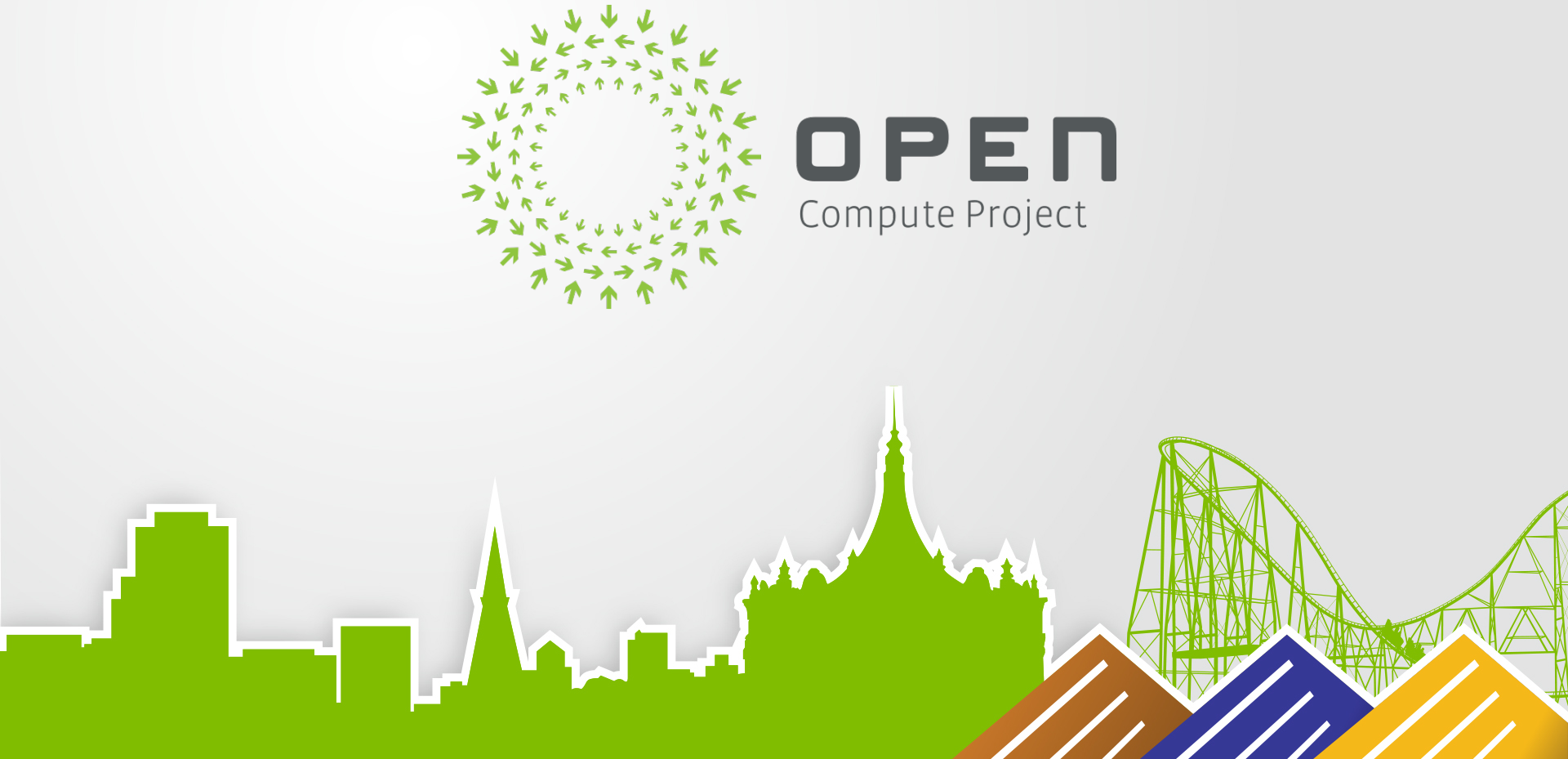
https://github.com/opencomputeproject/Project_Olympus

- LICENSE.md
- Project Olympus_Universal_PDU.pdf
- Project_Olympus_2UServer_Mechanical.pdf
- Project_Olympus_Chassis_Mechanical.pdf
- Project_Olympus_Rack_Manager.pdf
- Project_Olympus_Server_Mechanical.pdf
- Project_Olympus_StandAlone_Rack_Manager.pdf
- Project_Olympus_Universal_Motherboard.pdf
- Project_Olympus_Universal_Power_Cord.pdf
- Project_Olympus_Universal_Power_Monitoring_Distribution_Unit.pdf
- README.md

RECOMMENDED SESSIONS

Day	Time	Title	Presenter	Session Type
Weds, March 8th	12:30pm	Designing Open Source Hardware to Inspire an Ecosystem	Mark Shaw	Expo Hall Theatre
Weds, March 8th	2:35pm	Enabling Cloud Workloads Through Innovations in Silicon	Leendert van Doorn	Executive Track

Day	Time	Title	Presenter	Session Type
Thurs, March 9th	9:00am	Microsoft Project Olympus Overview	Mark Shaw Siamak Tavallaei	Workshop
Thurs, March 9th	10:00am	Microsoft Project Olympus Servers	Mark A. Shaw	Workshop
Thurs, March 9th	11:00am	Microsoft Project Olympus High Density Flash	Mark A. Shaw	Workshop
Thurs, March 9th	11:30am	Microsoft Project Olympus Storage JBOD	Bruce Hoch	Workshop
Thurs, March 9th	1:00pm	Microsoft Project Olympus GPU Expansion	Siamak Tavallaei	Workshop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