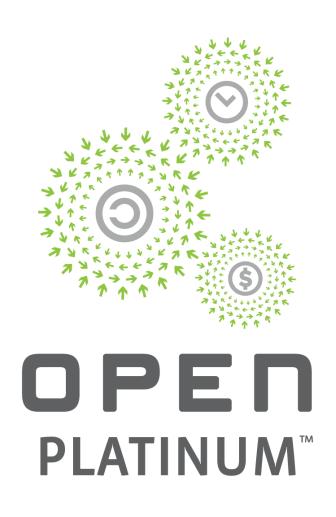
Open. Together. OCP オナナナスド



Convergence in Open Hardware Platforms

Dolly Wu, VP/GM Cloud Datacenter, Inspur Systems, Inc.







Inspur Driving Convergence Across Open Data Center Platforms





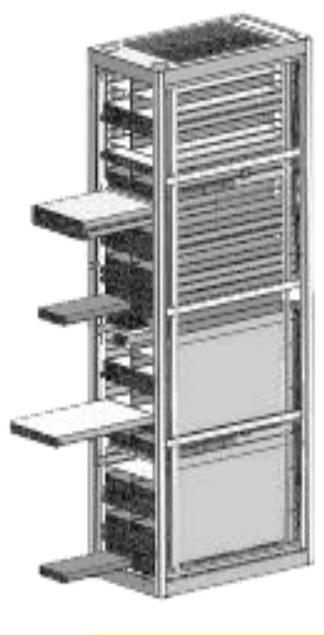
RACK & POWER

Inspur is the only server vendor to support all open source hardware projects and leverage common building blocks across the platforms.

- **Rack Scale Systems**
- **International Open Datacenter Platforms**











OCP Open Rack

Project Olympus Rack

Open19 Rack

InCloud Rack with ODCC Rack Intel® RSD



OCP Platinum Member Solution Provider





ODCC Solution Provider



Lead Vendor Key Member



Intel® Rack Scale Design





Inspur is a Key Member in Open Platform Communities.





Inspur OCP Rack Scale Product Overview



Compute



I/O Balanced

- 2x2.5"HDD or NVMe
- 2x M.2
- 1x FHFL(x16): CPU01x FHHL(x16): CPU1



High Density Compute

- 2x M.2
- **Expansion Slot:**
- 1x FHHL(x16): CPU0



High I/O Expansion

- 4x2.5"HDD or NVMe
- 1x M.2
- 3x HHHL(x8): CPU0



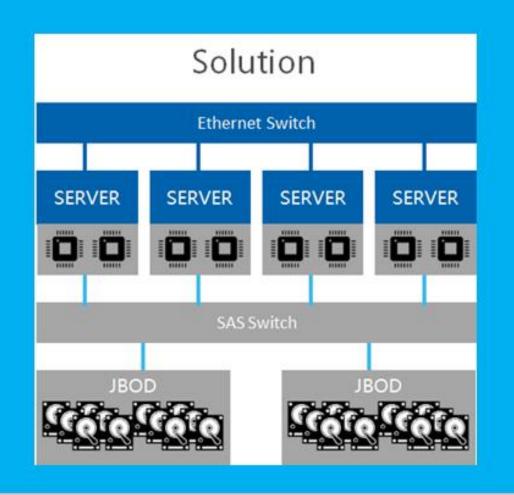
General Purpose

- 1x3.5"HDD
- 1x M.2
- 2x FHHL(x16): CPU0





- 20U form factor
- Two drive tray design/34 drives total
 17x 3.5"/2.5" Hot Plug Drive Bays/Tray
 NVMe/SSD/HDD

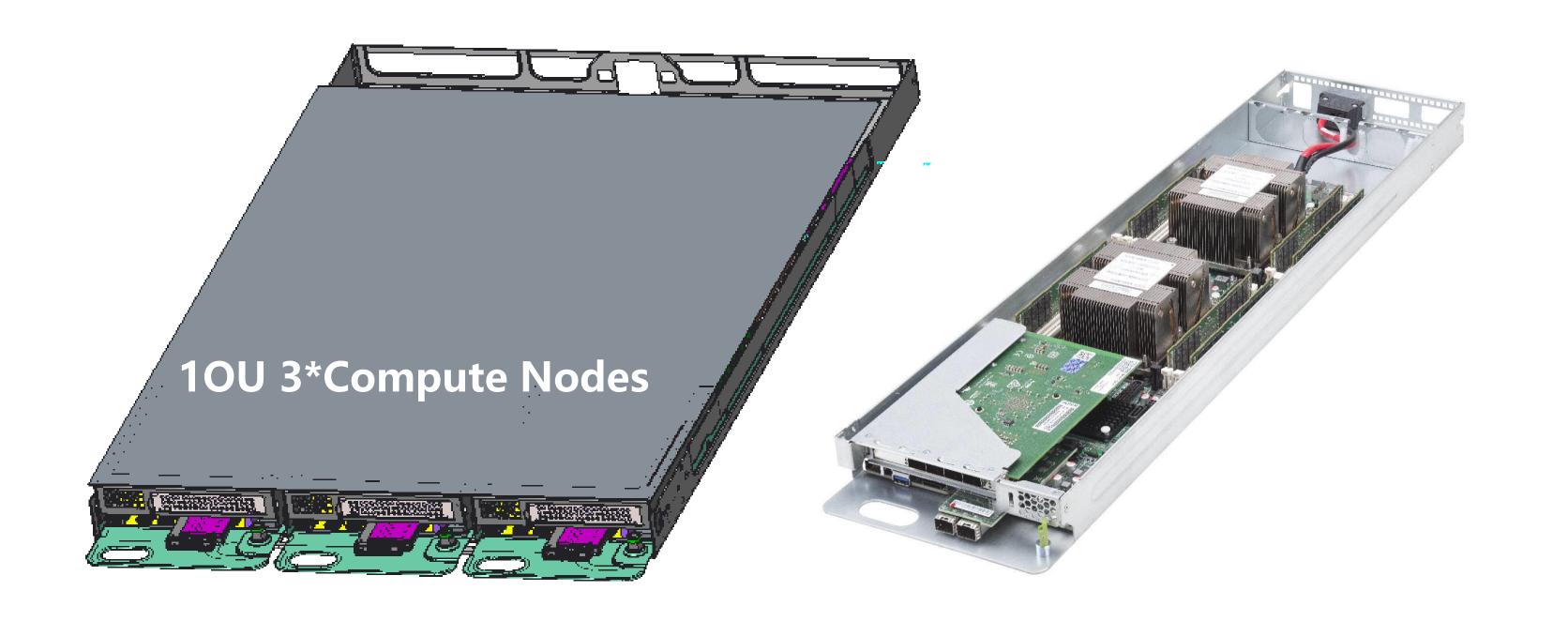






10U 3*Compute Nodes





ON5163M5

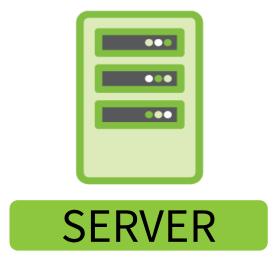
High Density Compute Node

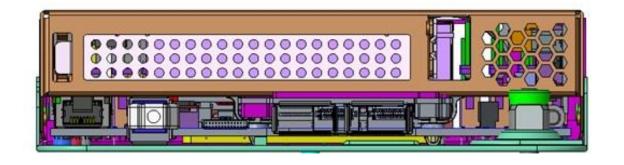
CPU: 2* Intel Xeon Scalable processor

DIMM slot: 16 DIMMs

Expansion Slot: 1x FHHL (x16): CPU0

Storage: 1 or 2*M.2







20U Xeon Scalable Compute Platform



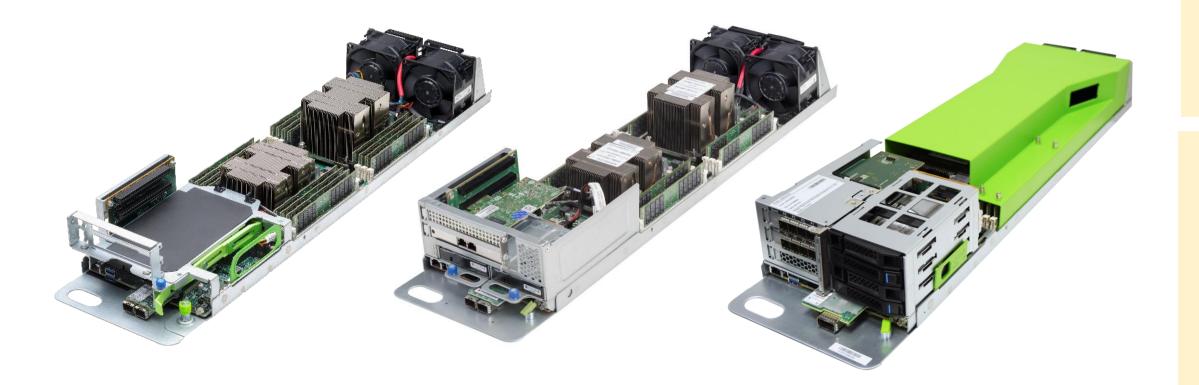
20U 3*Node

CPU: 2x Intel Xeon Scalable processor

DIMM slot: 16 DIMMs







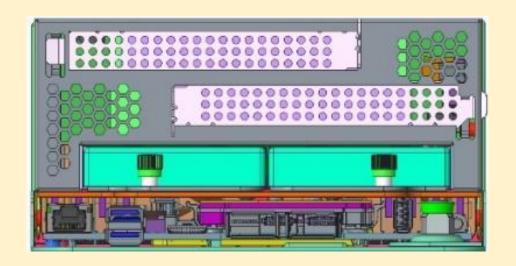
Expansion Slot:



SKU1: General Purpose - ON5263M5

- L. 1*3.5" SATA
- 2. 2*FHHL PCIE x16 Card(CPU0)
- 3. 2*M.2





SKU2: Balanced - ON5273M5

- 1. 2*2.5'' HDD or NVME(x4)
- 2. 1*FHFL PCIE x16 Card(CPU0)
- 3. 1*FHHL PCIE x16 Card(CPU1)
- 4. 2*M.2



SKU3: High IO – ON5283M5

- 1. 4*NVMe (x4)
- 2. 3*HHHL PCIE x8 Card(CPU0)
- 1*M.2



20U High Density Storage JBOD





ON5266M5

•20U JBOD with 34* Hot Swap 3.5"/2.5" Drive

Bays in 2 trays (17 drive bays per tray)

- •NVMe/SSD/HDD support
- •Flexible Architecture

Transforming ODCC Storage architecture into OCP.



STORAGE





Project Olympus 4-Socket Server: NF8380M5



Inspur's venture with Project Olympus is a high performance 4-socket server based on the latest Intel® Xeon® Scalable processor platform that provides significant boosts and benefits over dual socket servers

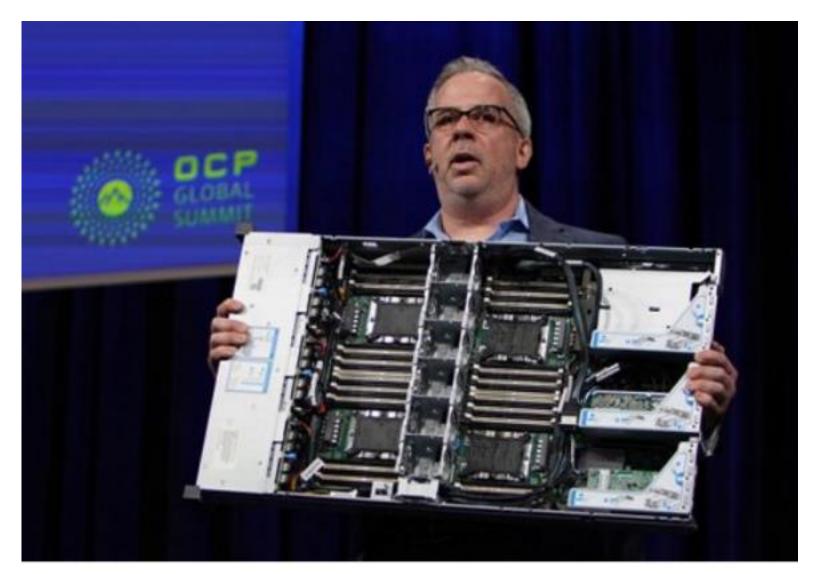




Open. Together.

The First 2U 4-Socket High Density Cloud Optimized Reference Design





Inspur NF8260M5



MSpur



- 1st 4-socket Cloud-optimized Platform to be contributed to open source community
- Validated for future generation Intel® Xeon™ Scalable Processor (Cascade Lake) and Intel® Optane™ DC persistent memory (Apache Pass)
- Increase CPU Core Count up to 112 in a single 2U system with 48 DIMMs



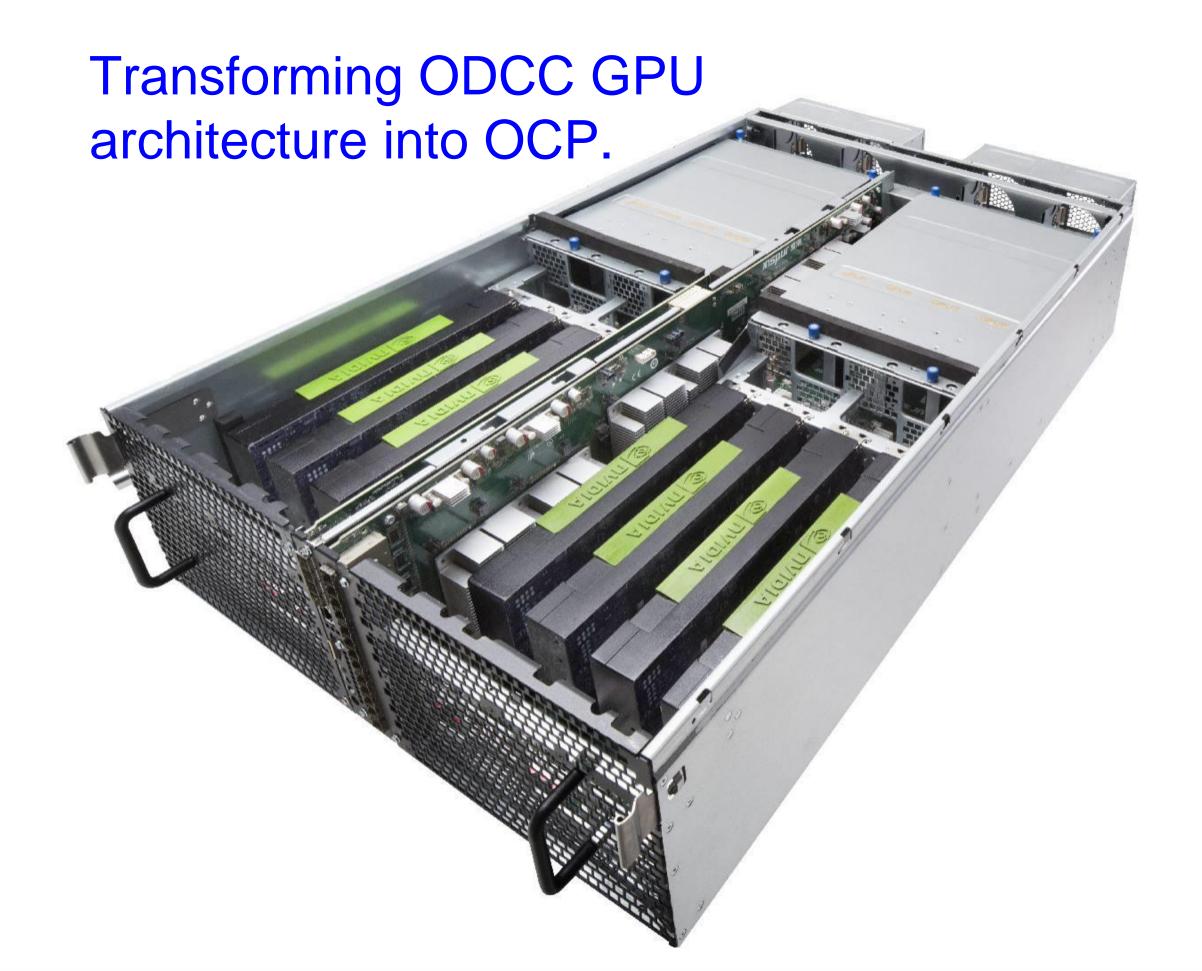


40U 16*GPU PCI-e JBOG

NEW







ON5488M5 Inspur OCP Al Node

Ultra-high GPU Density

40U 16*GPU for training or 16*FPGA for Inference Energy Conservation

Shared power & fans
I/O front access for hyper-scale data center
Optimized Architecture for AI

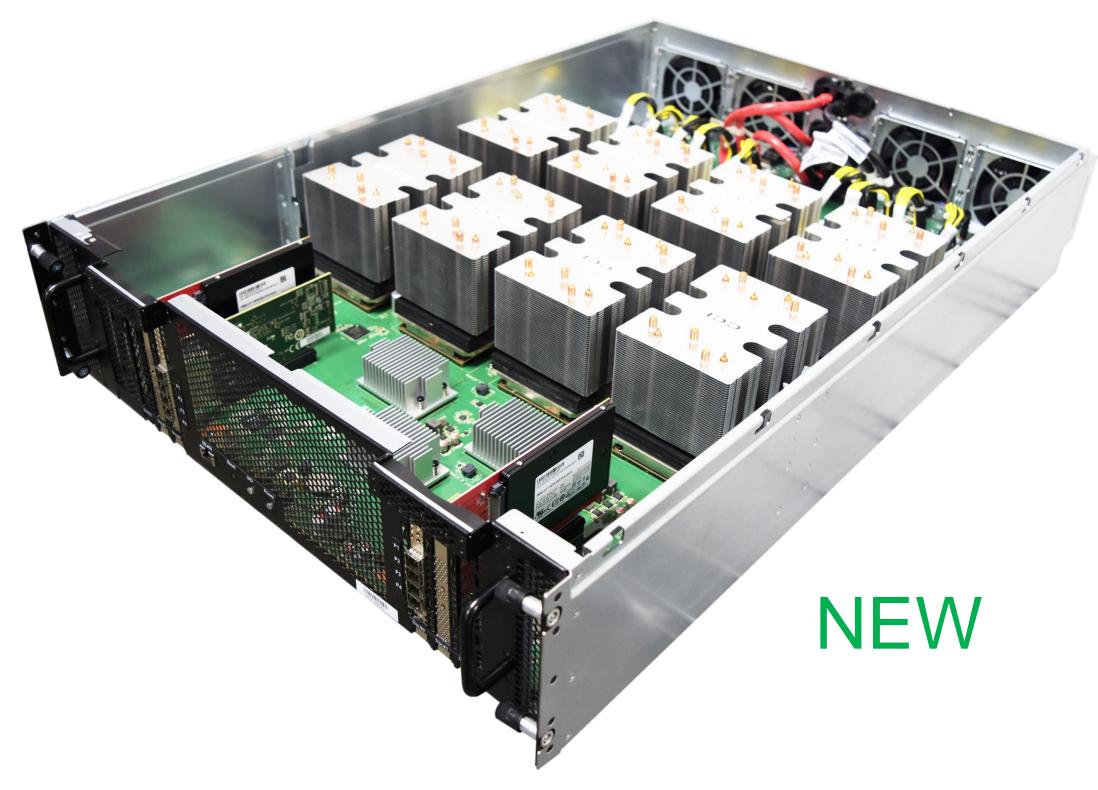
Accelerates training process Improved efficiency on computation expansion



30U8*GPUNVLinkJBOG









ON5388M5

High-Density NVLink GPU Expansion

- •NVlink-enabled architecture
- Flexible topology for different applications
- High density

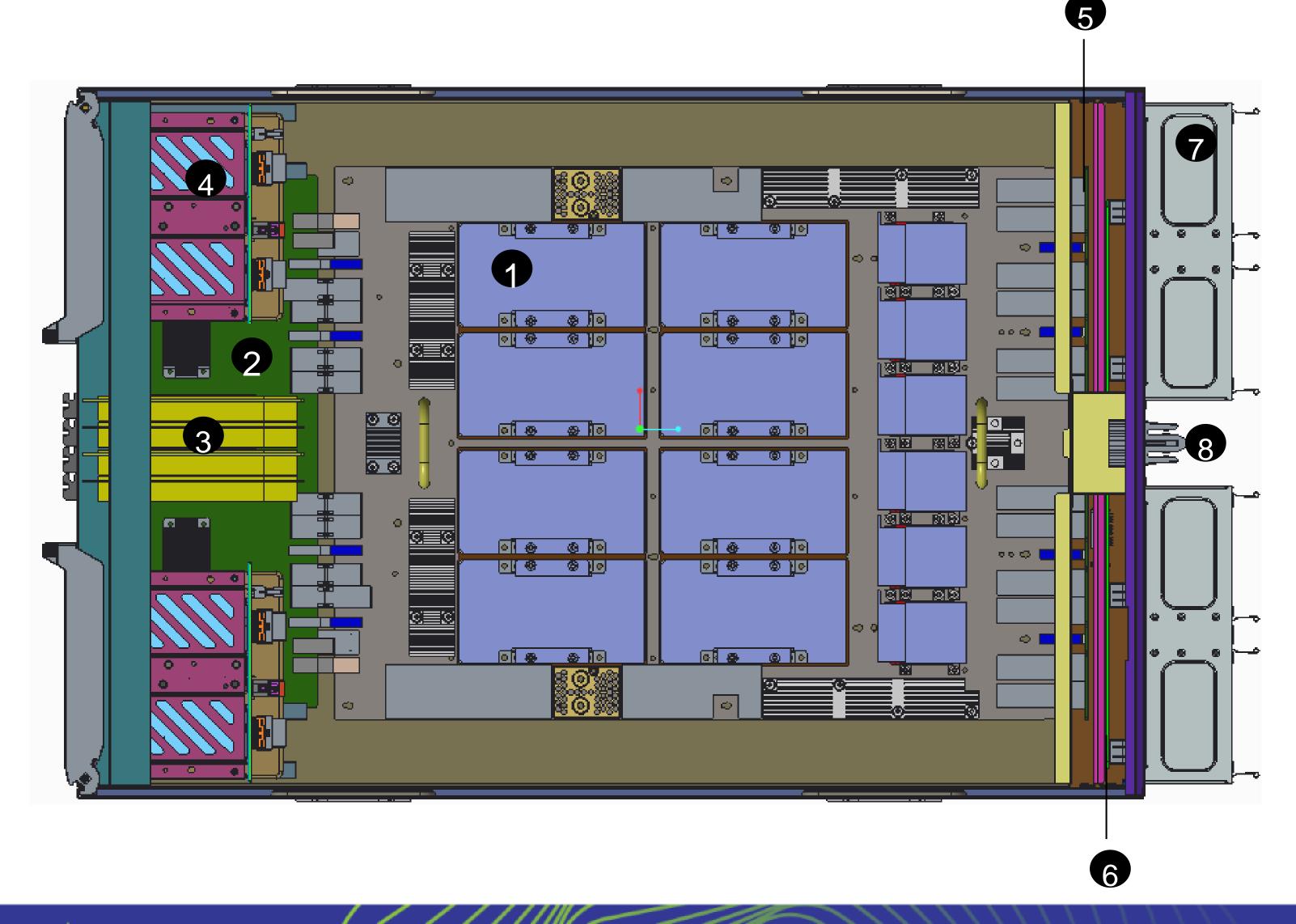
Transforming ODCC GPU server architecture into OCP.





New Al Proposal: 60U 16*GPU NVSwitch JBOG inspur





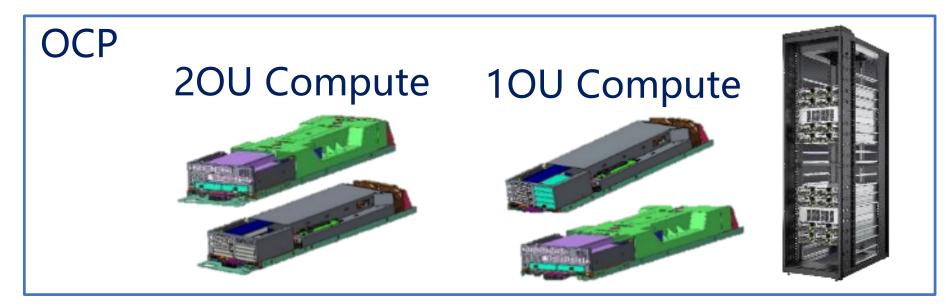
Transforming traditional GPU server architecture into OCP.

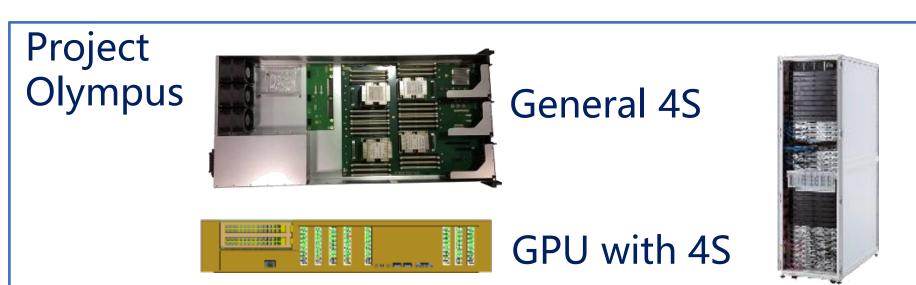
- 1、HGX2 Board *2
- 2. Switch Board *2
- 3、FHHL PCIE Card *8
- 4、2.5HDD *16
- 5. Link Board
- 6. Fan Board
- 7、9256 Fan Module *8
- 8. Busbar Clip *2

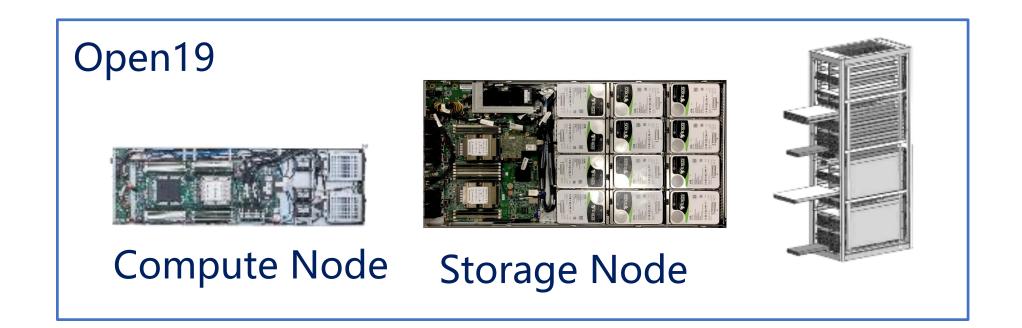


Global JDM Use Cases/Achievements















Inspur's Current Direction



Enhance

our relationship with the OCP community to design products needed in the marketplace

2

Develop

new products and technologies specific to the OCP initiative 3

Contribute

our knowledge and designs to the OCP community





Open. Together.

Call to Action



Where to find additional information (URL links)

OCP Projects: https://www.opencompute.org/projects

Where to buy: https://www.opencompute.org/products

For more information on Open Platforms and Inspur OCP Products:

https://www.inspursystems.com/open-platforms/

https://www.inspursystems.com/products/open-platforms/ocp/

For information on New Storage and GPU Server Products:

https://www.inspursystems.com/product/inspur-ocp-jbod/

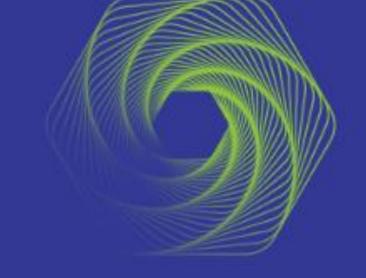
https://www.inspursystems.com/product/on5388m5/

https://www.inspursystems.com/product/inspur-ocp-ai-node/

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