Open. Together.
Convergence in Open Hardware Platforms
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Inspur is the only server vendor to support all open source hardware projects and leverage common building blocks across the platforms.
Inspur OCP Rack Scale Product Overview

**Compute**
- **I/O Balanced**
  - 2x 2.5"HDD or NVMe
  - 2x M.2
  - 1x FHHL(x16): CPU0
  - 1x FHHL(x16): CPU1
- **High Density Compute**
  - 2x M.2
  - Expansion Slot
  - 1x FHHL(x16): CPU0
- **High I/O Expansion**
  - 4x 2.5"HDD or NVMe
  - 1x M.2
  - 3x HHHL(x8): CPU0
- **General Purpose**
  - 1x 3.5"HDD
  - 1x M.2
  - 2x FHHL(x16): CPU0

**Storage**
- **JBOD**
  - 2U form factor
  - Two drive tray design/34 drives total
  - 17x 3.5”/2.5” Hot Plug Drive Bays/Tray
  - NVMe/SSD/HDD

**AI**
- **PCle GPU Box**
  - 4U form factor
  - 16 PCIE GPU cards
- **NVLink GPU Box**
  - 4U form factor
  - 8 NVLink SXM2 GPUs
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
2OU Xeon Scalable Compute Platform

2OU 3*Node

CPU: 2x Intel Xeon Scalable processor
DIMM slot: 16 DIMMs

SKU1: General Purpose - ON5263M5
1. 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*FHHL 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)
3. 1*M.2
2OU High Density Storage JBOD

ON5266M5
- 2OU 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.
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.
The First 2U 4-Socket High Density Cloud Optimized Reference Design

- 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

Inspur NF8260M5
4OU 16*GPU PCI-e JBOG

Transforming ODCC GPU architecture into OCP.

ON5488M5 Inspur OCP AI Node

Ultra-high GPU Density

4OU 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
ON5388M5
High-Density NVLink GPU Expansion
• NVlink-enabled architecture
• Flexible topology for different applications
• High density

Transforming ODCC GPU server architecture into OCP.
New AI Proposal: 6OU 16*GPU NVSwitch JBOG

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

OCP
- 2U Compute
- 1U Compute

Project Olympus
- General 4S
- GPU with 4S

Open19
- Compute Node
- Storage Node

Customer A
- Servers & GPU & FPGA

Customer B
- JBOF & JBOG
- FPGA

Customer C
- Server Nodes
- PCIe Switch
- JBOD
- SAS Switch
- JBOG
Inspur’s Current Direction

1. 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
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/on5388m5/
https://www.inspursystems.com/product/inspur-ocp-ai-node/

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