OCP SUMMIT

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San Jose, CA

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Inspur OCP Product Overview

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General Manager
Inspur Systems

OCP Product Overview

Matthew Thauberger GM, Inspur Systems

Inspur's OCP Timeline

2016 MAY

Emerged as an active participant within the OCP community

2017 JAN

The OCP committee declared Inspur as the newest Diamond member

2017 MAR

Inspur released the Open Rack series including rack servers which are compliant with the OCP standard

2017 OCT

The Inspur ON5263M5 (San Jose Compute Solution) received OCP-Accepted certification from the OCP committee

2017 NOV

Inspur and OCP held a joint Session during SC17

TODAY

Inspur is introducing more OCP-based compute nodes, storage nodes, remote management sw and a series of other products

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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

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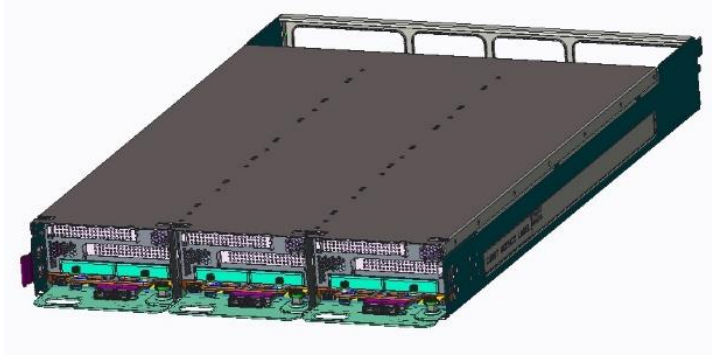
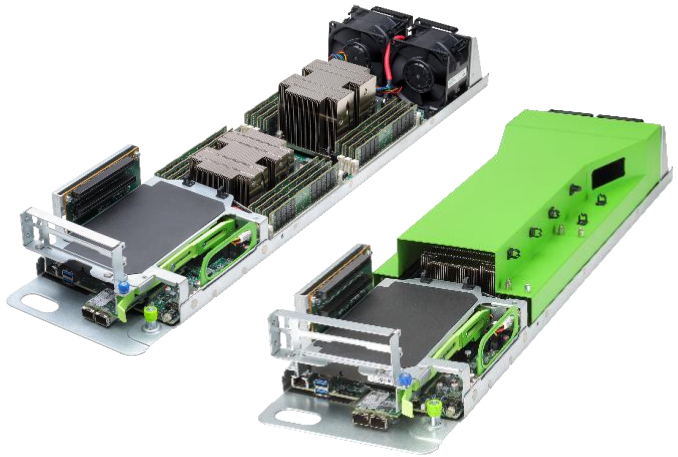
2OU Xeon Scalable Compute Platform

OCP ACCEPTED

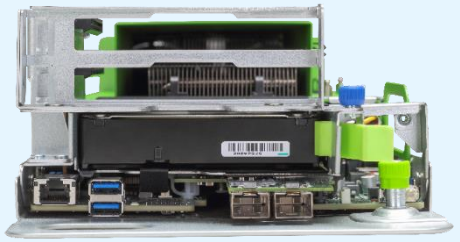
2OU 3*Node

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



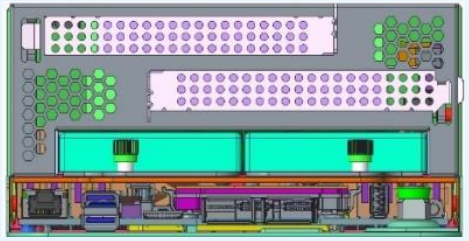


Expansion Slot:



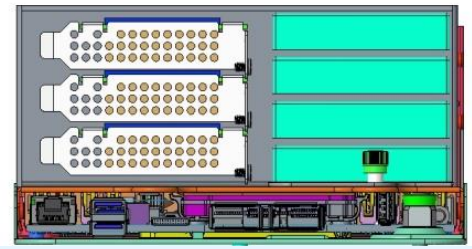
SKU1: ON5263M5

1. 1*3.5” SATA
2. 1*FHHL PCIE x16 Card(CPU0)
3. 1*FHHL PCIE x16 Card(CPU0)
4. 2*M.2



SKU2:

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:

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

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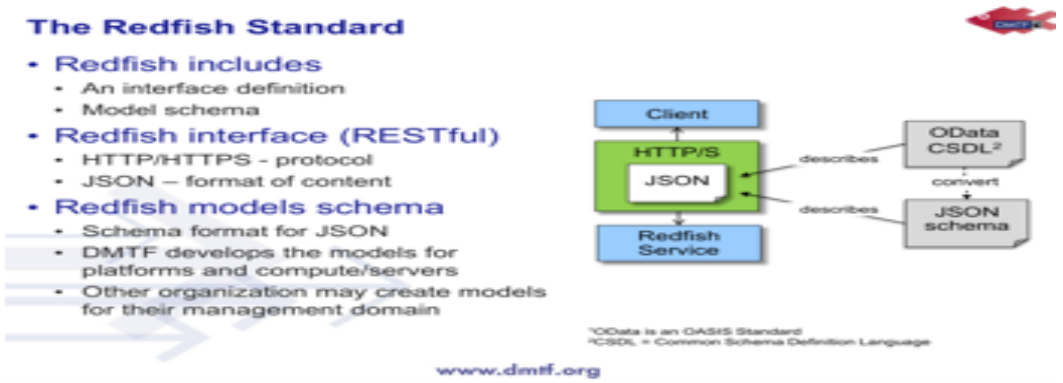
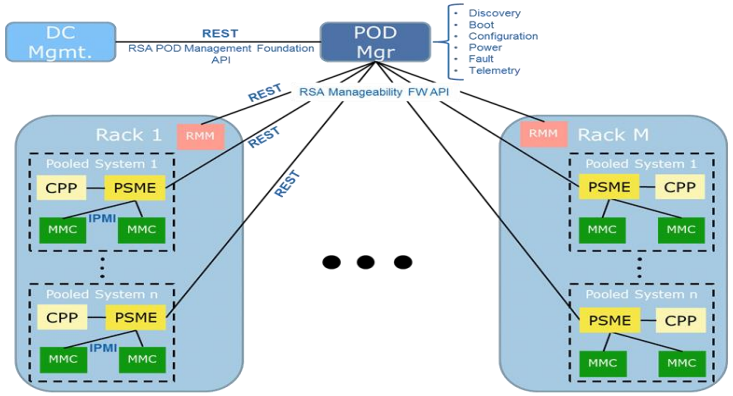
Remote Management Protocol





Redfish/Restful Function, implement and continually upgrade Redfish spec, Inspur defined functionality extension

1

2

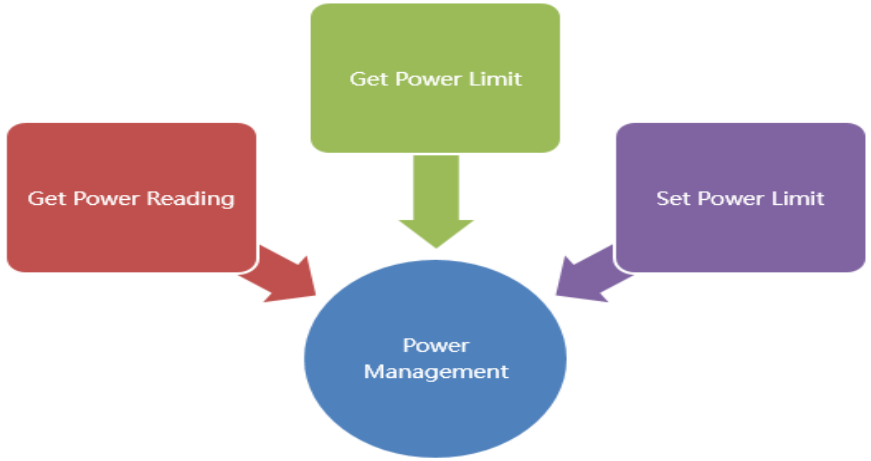
Develop PSME and RMM modules to achieve BMC / CMC compatibility support for Intel **RSD 2.2**

DCMI 1.5, implement power management, temperature monitor & chassis control

3

4

SNMP Function, support Get/Set/Trap & V1/ V2C / V3 protocol, implement Inspur defined security access control mechanism



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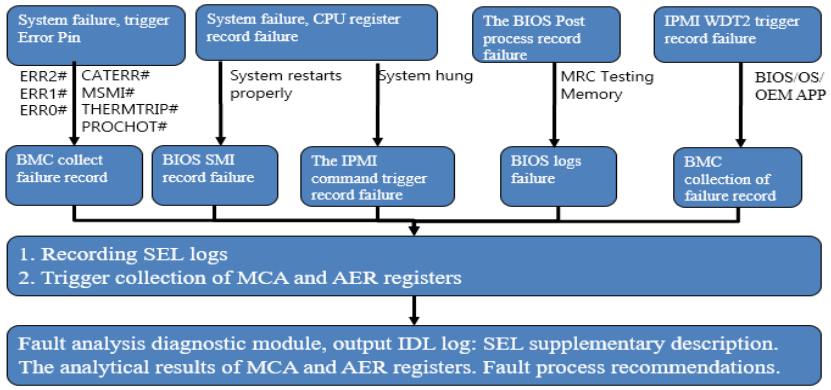
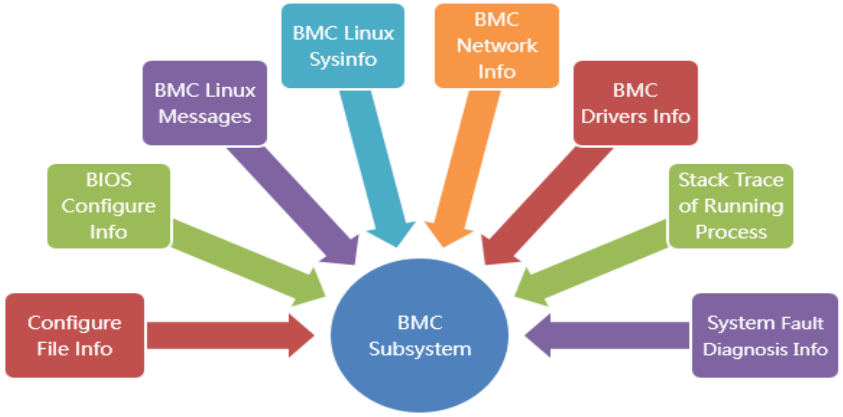
System & BMC Subsystem Features



System fault diagnosis function, realizes the system fault rapid diagnosis. output the detailed fault records and recommendations.

5

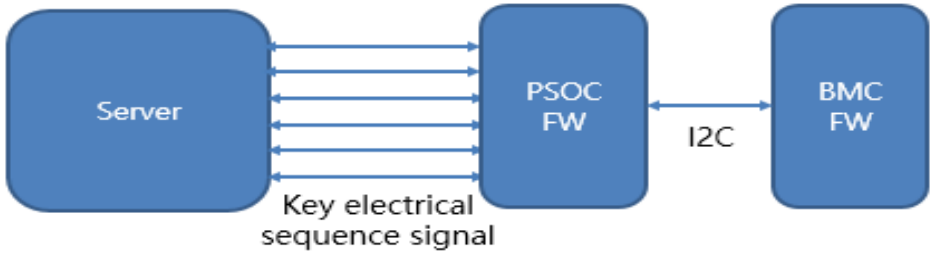


6

BMC subsystem fault diagnosis realize fast diagnosis of BMC subsystem

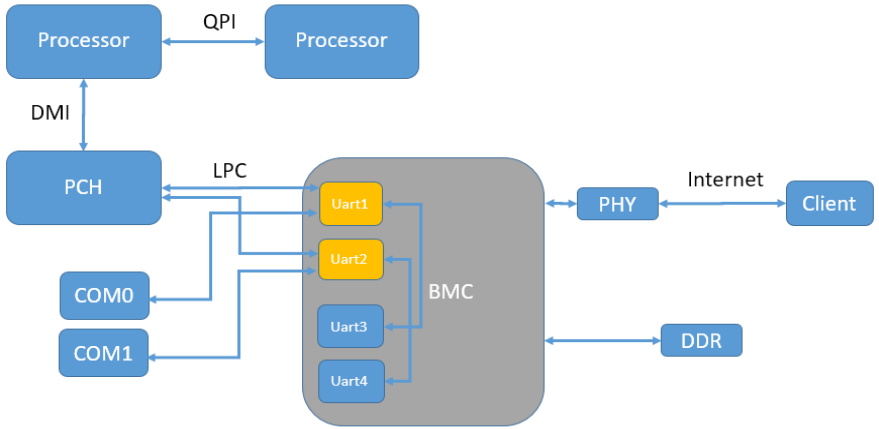
7

Key signal detection, realized the detection of the key power sequence signal



8

SOL logging function, rich system fault diagnosis functional logic



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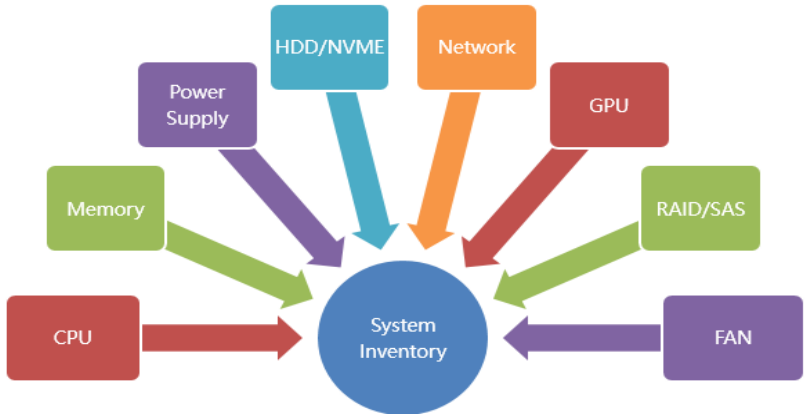
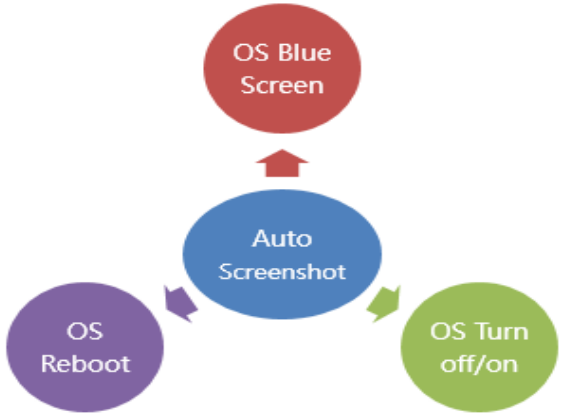
Key Management Functions



System inventory, implement inventory monitor(CPU, Memory, Power Supply, Fan, Hard Disk, NVME, Net Card, GPU, RAID, etc.)

9

10

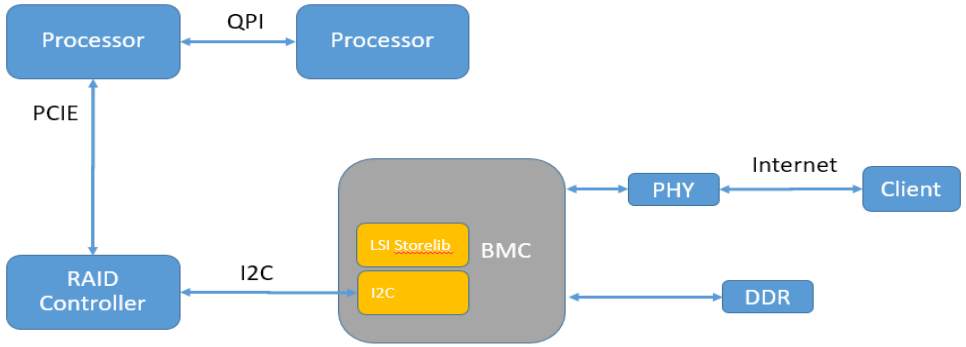


Auto & Manual Screenshot, support OS blue screen/power off/restart automatic screenshot & manual screen capture

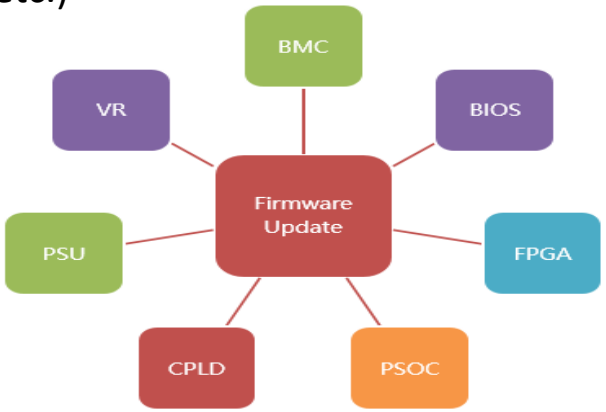
RAID/SAS Monitor/Configuration/Log function, implement inventory monitor, raid configuration & controller log record

11

12



Component **Firmware update**, implement common component update function(BMC, BIOS, FPGA, PSOC, CPLD, PSU, VR, etc.)



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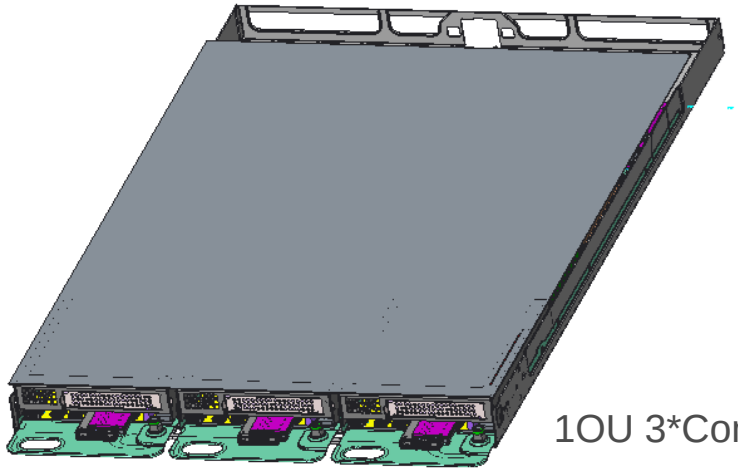
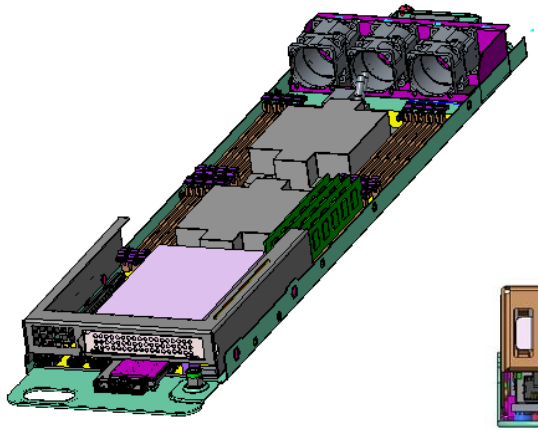
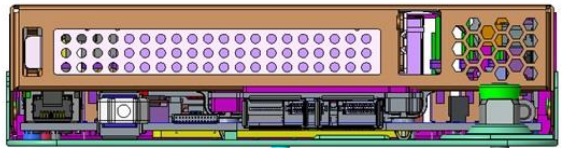
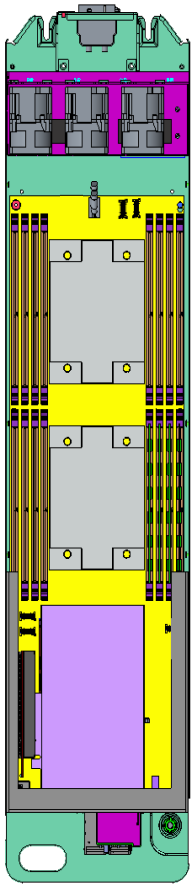
1OU For Higher Compute Density



1OU 3*Compute Nodes







1OU 3*Node

CPU:

2* Intel Xeon Scalable processor

DIMM slot: 16 DIMMs

Expansion Slot:

- 1x FHHL (x16) : CPU0

Storage:

- 1 or 2*M.2

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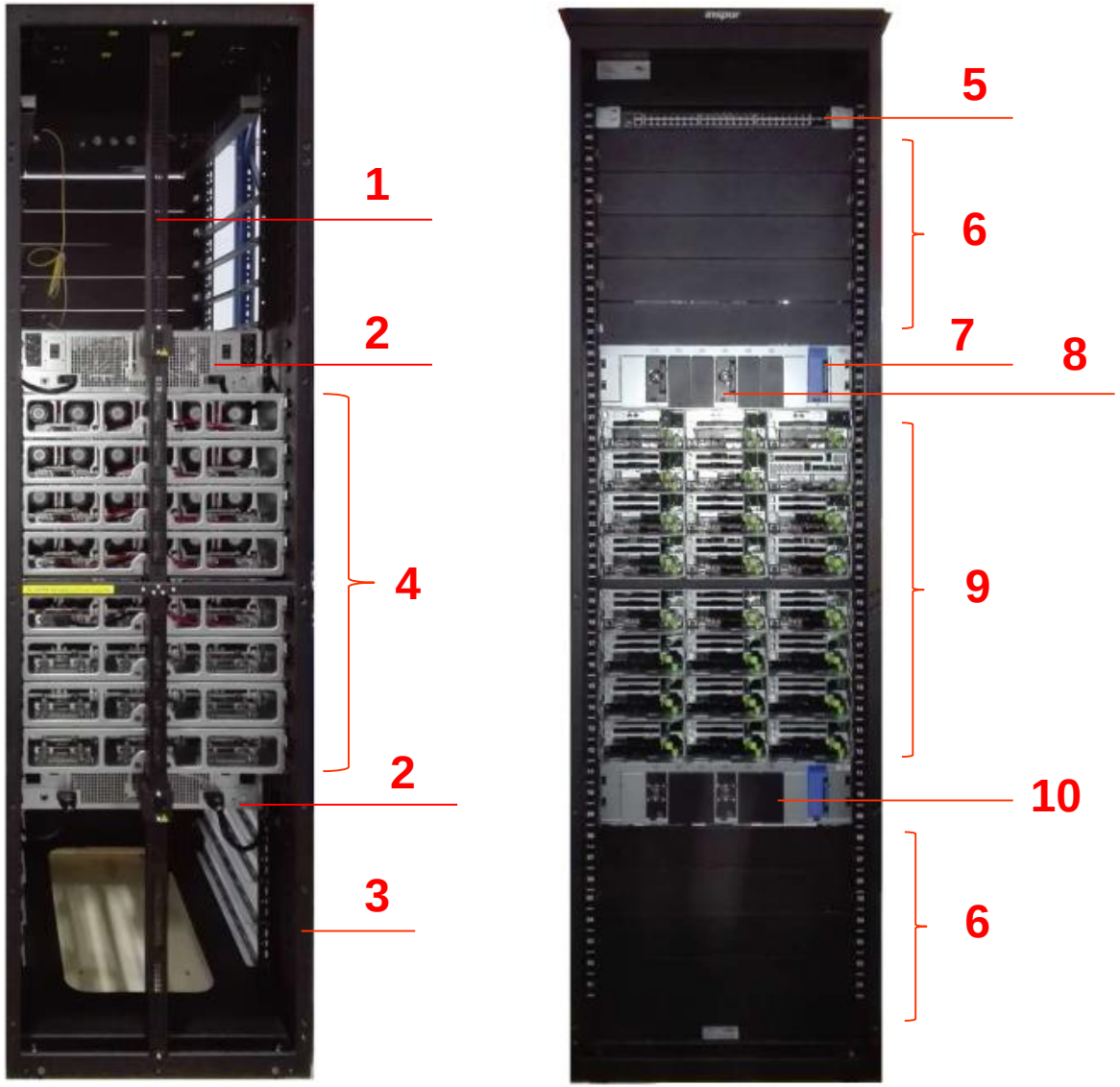
Open Rack Series



Item	Name
1	Copper bar
2	Power shelf
3	Rack
4	Rear of the server nodes
5	Switch
6	Blind plate
7	COMM module
8	PSU
9	Front of the server nodes
10	PSU blind plate

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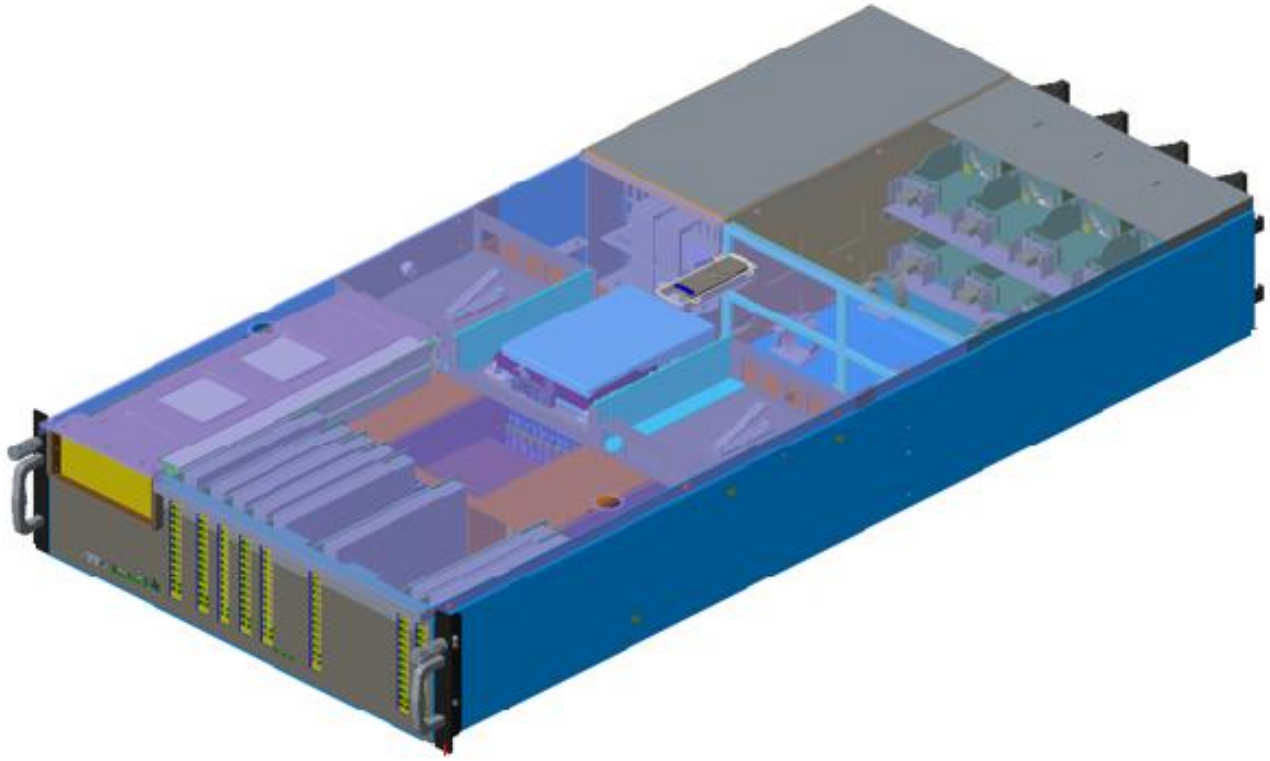
Project Olympus

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



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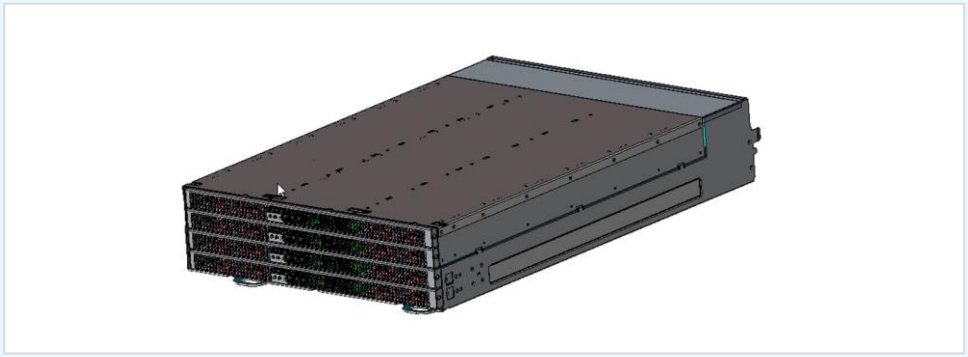
Future Storage Designs

*Currently in the design phase

3OU 64Bay JBOD



Specification

- 3OU
- Support 1~64 drives
- Four-bay, each bay support 16 drives
- Drive support 2.5” or 3.5” HDD

4OU 75Bay System

Specification

- 4OU
- Support 1~75 drives
- Drive support 2.5” or 3.5” HDD

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Thank You

COMPUTING INSPIRES FUTURE

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