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Inspur OCP Product Overview

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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

*Inspur Confidential - NDA Requested. All dates and plans are subject to change without notice.*
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
2OU Xeon Scalable Compute Platform

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
Remote Management Protocol

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

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

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

2. **SNMP Function**, support Get/Set/Trap & V1/ V2C / V3 protocol, implement Inspur defined security access control mechanism
System & BMC Subsystem Features

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

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

BMC subsystem fault diagnosis realize fast diagnosis of BMC subsystem

SOL logging function, rich system fault diagnosis functional logic
**Key Management Functions**

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

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

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

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Copper bar</td>
</tr>
<tr>
<td>2</td>
<td>Power shelf</td>
</tr>
<tr>
<td>3</td>
<td>Rack</td>
</tr>
<tr>
<td>4</td>
<td>Rear of the server nodes</td>
</tr>
<tr>
<td>5</td>
<td>Switch</td>
</tr>
<tr>
<td>6</td>
<td>Blind plate</td>
</tr>
<tr>
<td>7</td>
<td>COMM module</td>
</tr>
<tr>
<td>8</td>
<td>PSU</td>
</tr>
<tr>
<td>9</td>
<td>Front of the server nodes</td>
</tr>
<tr>
<td>10</td>
<td>PSU blind plate</td>
</tr>
</tbody>
</table>
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.
Future Storage Designs

*Currently in the design phase

3OU 64Bay JBOD

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

4OU 75Bay System

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