





Powering The Open Data Center Revolution



Intelligent World Requires Enormous Computing Power

Data source : Cisco



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Solutions







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Open



Open Platform, Making Ecosystem More Open

Open Hardware

Embrace
Open

Member: Facebook, Inspur,
Google, Microsoft

Over billion deployment

Members: Baidu, Tencent, Alibaba, Intel, Inspur

Millions of nodes deployed

● OpenPOWER INSPUT 浪翔 Google IBM Addison 2 TANN

OpenPower





Rack Level Management

Open Software

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Open Platform, Making Ecosystem More Open

Beneficial

Open Design Platform













Goal for Open Platform

















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Inspur and OCP held a joint Session during SC17



The OCP committee declared Inspur as the newest Diamond memher



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

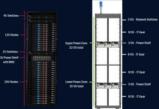
TODAY Inspur is introducing more OCP-based compute nodes, storage nodes, Al management software

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Open Rack Architecture Comparison Open | Tencent | & Tencent Cloud

Share the same inner dimension : 21-inch wide Front maintenance : computing nodes, PSU, Switch

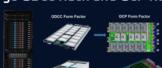
Harn	680	OCF
1U Height (mm)	46.5 (Scorpio Unit)	48 (Open Unit)
Rack Height	42/46 SU	41 OU
Server Node Width	21"	21"
Device Space	36/40 SU	32 OU
Switch	3 SU	3.00
Power	3 SU	6 OU
Bus bar	1 pair(left)	3 pair
Unified Cooling	Yes	No
Unified Mgmt	Yes	No



Converge ODCC Rack and OCP Rack







Component	SR Storage Node	OCP Storage Node
Chassis	N	N
HDO Tray	Share	Share
Controller Board	Share	Share
HDO Backplane	N	N
Power Distribution	N	N

Component	SR GPU Node	OCP GPU Node
Chassis	N	N
GPU Switch Board	Share	Share
Expansion Board	Share	Share
Power Danibution	N	N

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Convert ODCC storage and GPU nodes to OCP, with key components shared Design cycle shortened 60%, high reliability and cost efficiency

Inspur OCP Rack Level Product Overview Tencent | & Tencent | Colored Cloud













2× (1006/x26): CP500

To FHIRE (v16): CPSE





2v2 STHDD ov NVM



ALC: STHOO or NVMv



Inspur OCP Compute Family



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Converage Architecture

- Unified MB Design to cover 4 Types Application
- Cover High Expansion, Resource Balance, Energy Efficiency and Desity Computiong



High density architecture to support 20U three Node and 10U three Node

- High performance computing capability













1/0

Balance

Energy

Efficiency



Density Computing

Inspur OCP JBOD Storage





Storage Density and Cost Efficiency

High Storage Density

20U 34*HDDs, improve 13% storage capacity

Flexiable Architecture

- per tray
- Each tray support SATA and SSD, maintain individuly



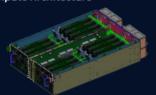


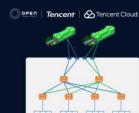
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Inspur OCP AI Product

Scalable and Leading Compute Architecture

Leading Compute Capability 40U 16*GPU for training or 16*FPGA for Inference Optimization Architecture for Al





Hardware Management For OCP Rack





WebUI to monitor system status

- Component Firmware Life cycle Management
 1. Version auto discovery
 2. Intelligent yeldate for BMC, BIOS, CPLD, FPGAeto
 3. Firmware rollback when error occurs.



- Fault Diagnosis
 1. System Fault rapid diagnosis.
 - System Fault rapid diagnosis. Output the detailed fault records and recommendations BMC Subsystem fault diagnosis

OPEN | Tencent | & Tencent Cloud



Inspur's OpenBMC Roadmap





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Porting Latest OpenBMC Version to OCP Node



Inspur released OpenBMC Version 1.0 for OCP Compute Node





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