Our Solutions

Overcoming the space, thermal and signal integrity challenges, Inspur engineers developed a singular platform to fulfill customer requirements to support all 3 storage interfaces (SAS/SATA/NVMe), by designing a universal backplane accommodating 12 drives in a 1U form factor.

Inspur further designed the platforms according to Open19’s standard 19-inch “brick” form factor, modularized for ease of use within the Open19 “cage” enclosure and optimized to provide scalable power and bandwidth based on linear growth. These high-density platforms enable maximum space efficiency and power savings.

Customer Challenge

Open19 is an open standard organization seeking to develop non-Disruptive open infrastructure, for ease of adoption of open designs into a traditional data center’s 19” rack size.

Their goals:

- To design industry-leading platforms of a brand new open standard
- A common architecture to meet different application requirements and improve product serviceability
- To accelerate data center transformation with Open19 architecture, through the power and space efficiency of open computing
- Physical challenges are space limitation, thermal tolerance and signal integrity

New system topology

Case Study

"Very creative design – you made my day brighter.”
Yuval Bachar, President and Chairman of Open19

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Inspur delivered to Open19 a purpose-built solution that fulfills their requirements and offers desired benefits for their business:

- Platforms’ modular design enables enhanced serviceability
- Universal architecture maximizes cost efficiency
- Optimal power savings and spatial density of open design
- Rapid massive deployment

### Building Open19 by the numbers:

- **1** full cluster
- **1,536** servers
- **4** sockets **8** cores per server
- **3** days

### Total 50,000 cores delivered to production in 3 days

### Why Inspur

Inspur’s features and capabilities made us the perfect partner for Open19 to help them develop the solutions they needed.

#### Open platform design expertise

Thanks to Inspur’s rich history of active involvement in various open design communities like ODCC and OCP, we leveraged our rack-scale and open platform design experience and integration capability to develop the right solution for Open19.

#### JDM experience and philosophy

Close engagement between our engineers and Open19’s team helped us gain deep and rapid understanding of the customer’s requirements and pain points.

#### Product development capabilities

Inspur has the breadth and depth of engineering expertise and manufacturing capability to quickly develop Open19’s project from concept to final product.

#### Expertise in “extreme” design

Our experience in pushing the boundaries of technology lets us design complex hardware platforms that deliver extreme features, in the face of difficult challenges. The universal backplane that supports 12 drives, PCI for enhanced signal integrity and 3 storage interfaces is one such example of this capability.