

# Enterprise Products & Solutions

Crafted in India, Engineered for the World

vantageo™

*"Innovation without compromise, Performance without the premium."*

[www.vantageo.com](http://www.vantageo.com)

Brand Tagline: *“Innovation without compromise, Performance without the premium.”*

Vantageo, inspired by the Italian word "vantaggio" (meaning "advantage"), is an Indian OEM that designs and manufactures high-end data center products in India. The brand is committed to delivering cutting-edge, affordable technology solutions for enterprises worldwide. Vantageo specializes in servers, storage systems, GPU-accelerated computing, High-Performance Computing (HPC) systems, and advanced networking devices, making enterprise-grade technology accessible without compromising on performance or quality. Vantageo products are available through a global network of authorized partners and distributors teams. The brand also offers a Vantageo Advantage Program, providing flexible financing, customized configurations, and 24/7 enterprise support to make high-end technology accessible to all.

# Company Overview



Mumbai  
Head Quartered



Founded in 2020



283+ Workforce



200+ Channel  
Partner Network



100% Bootstrapped,  
Positive net worth



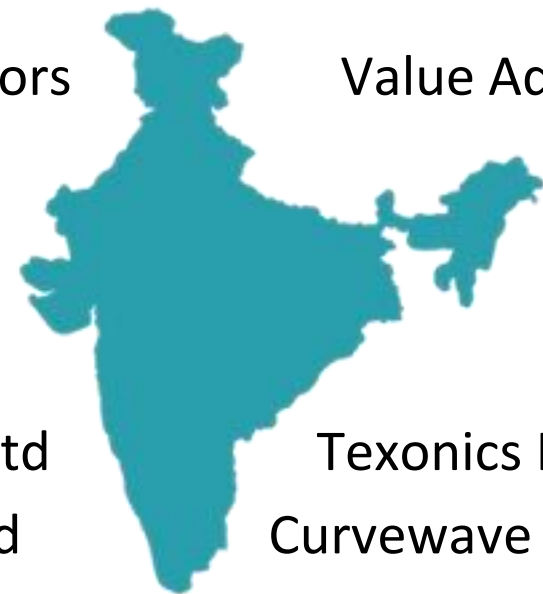
200 support locations  
covered in India



24x7 Technical  
Assistance Centre

India Market Distributors

Value Added Distributors



iValue Infosolutions Ltd  
RAH Infotech Pvt. Ltd

Texonics Instruments P Ltd  
Curvwave Technologies P Ltd



Bangladesh, Bhutan,  
Sri Lanka Distributor  
Curvwave  
Technologies P Ltd



South Africa

South Africa  
Distributor  
Cartel Infosystems



Ranked 14 in top 100  
supercomputers List  
published by CDAC



60+ Govt & Enterprise  
Customers



Manufacturing Production  
facility at Shirval Near Pune,  
Maharashtra

Components Manufacturing  
at Vapi, Gujarat

R&D Facility in Thane,  
Maharashtra & Bangalore



## Product Portfolio

High-end Server Products



High-end Datacentre Networking Switches



Cloud HCI and Container Platform



Unified Storage Solutions



Supercomputer Clusters



AI & GPU Systems



S3 Object Storage Cluster

The logo for Vantageo, featuring the word "vantageo" in a lowercase, sans-serif font. The "v" and "a" are in a dark grey color, while the "n" and "t" are in a teal color. A small "TM" trademark symbol is positioned to the upper right of the "o".

vantageo™

The text "Enterprise Class Server Products" is centered in a large, black, sans-serif font. A vertical teal line is positioned to the left of the text, extending from the top of the text down to the middle of the page.

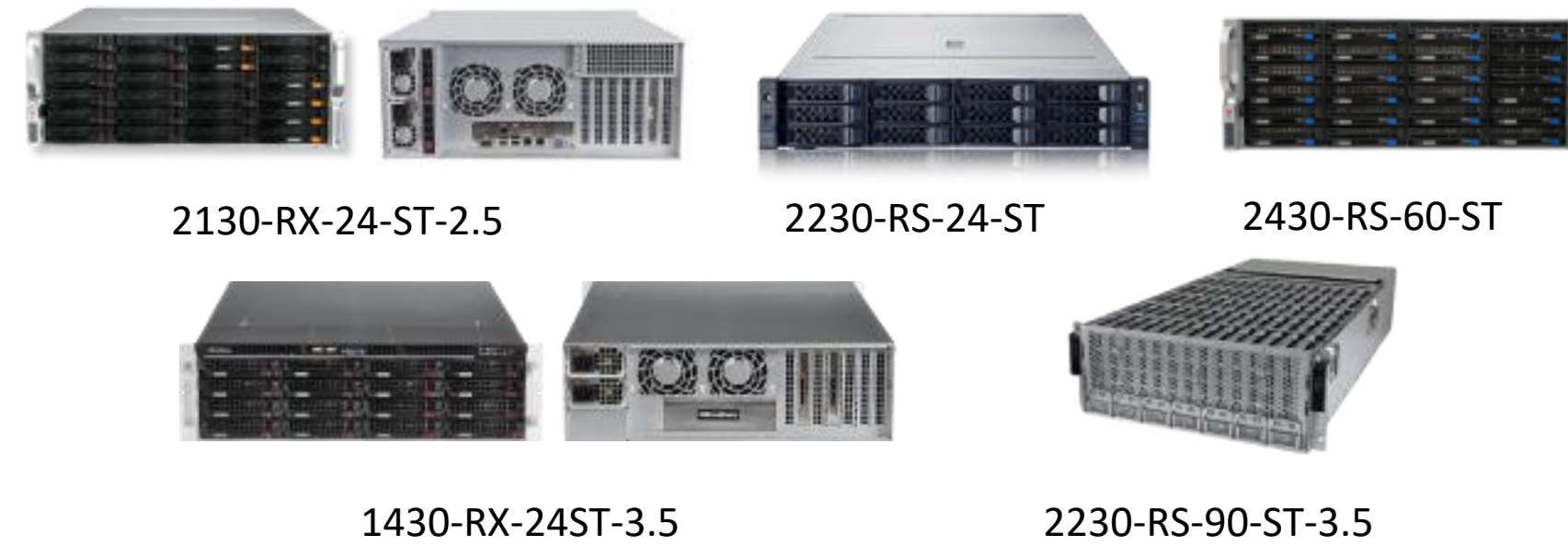
# Enterprise Class Server Products



## Enterprise Servers



## High Density Storage



## Intelligent Computing

### AI & HPC Nodes

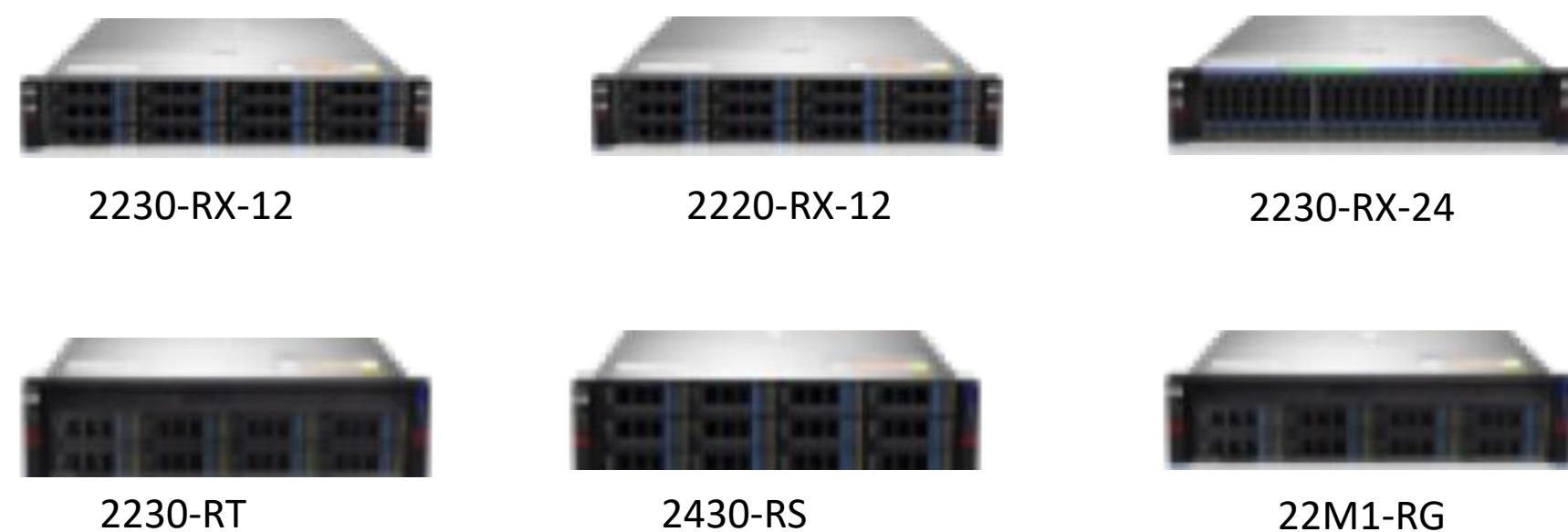


## Edge Computing & Fault Tolerant Systems



## EXTEN-SCALE Series

Hyperscale-Hyper Converged - Compute Nodes



## Eminent Series Workstation

Content Creation



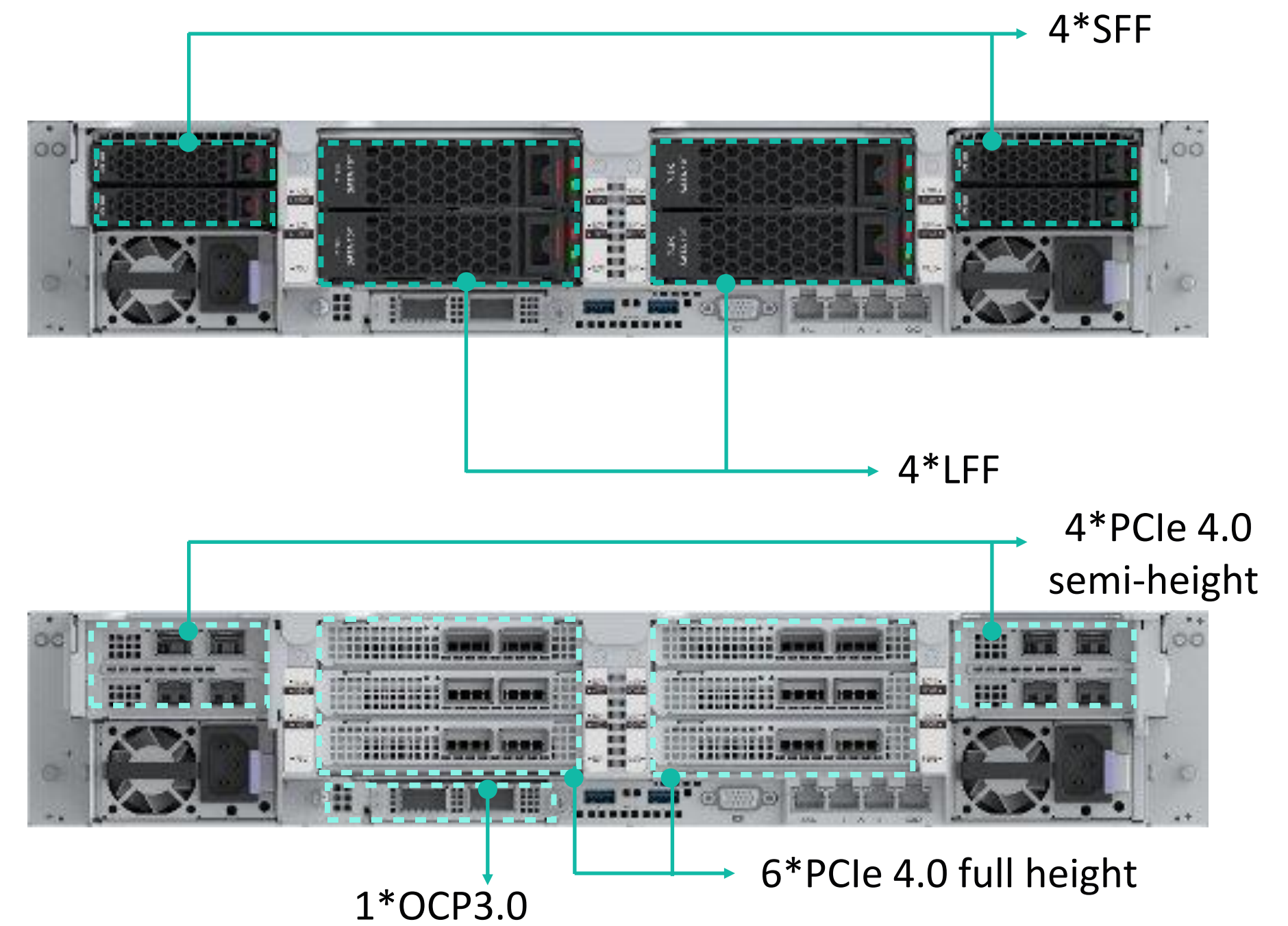
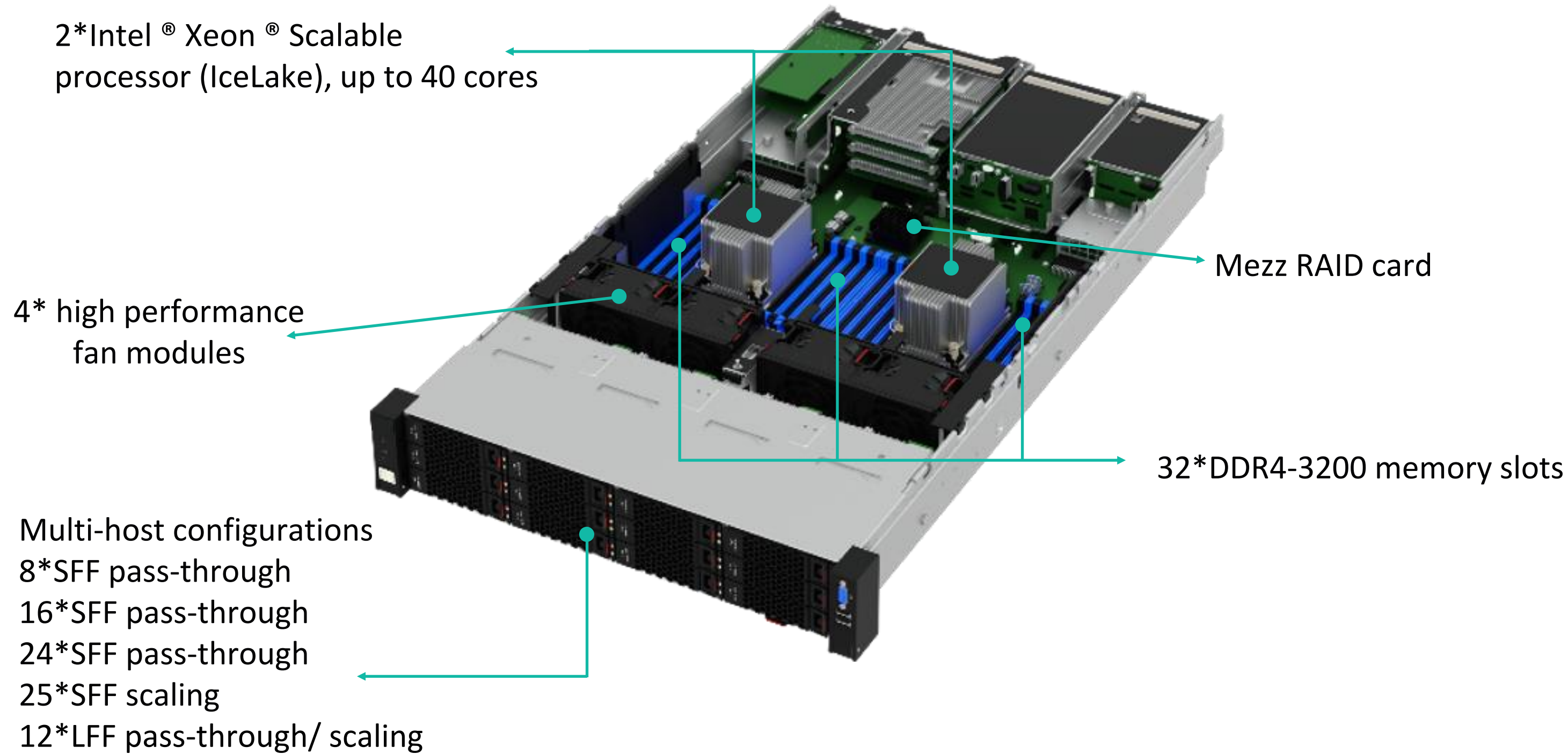
## Intensive Series

Workststion

### Machine Learning & Rendering



# VANTAGEO 2230-RE Quick View



## Massive storage

Local storage supports up to 20LFF+4SFF,  
 Suitable for distributed storage, big data analysis and other applications

## Ultra-powerful scaling capabilities

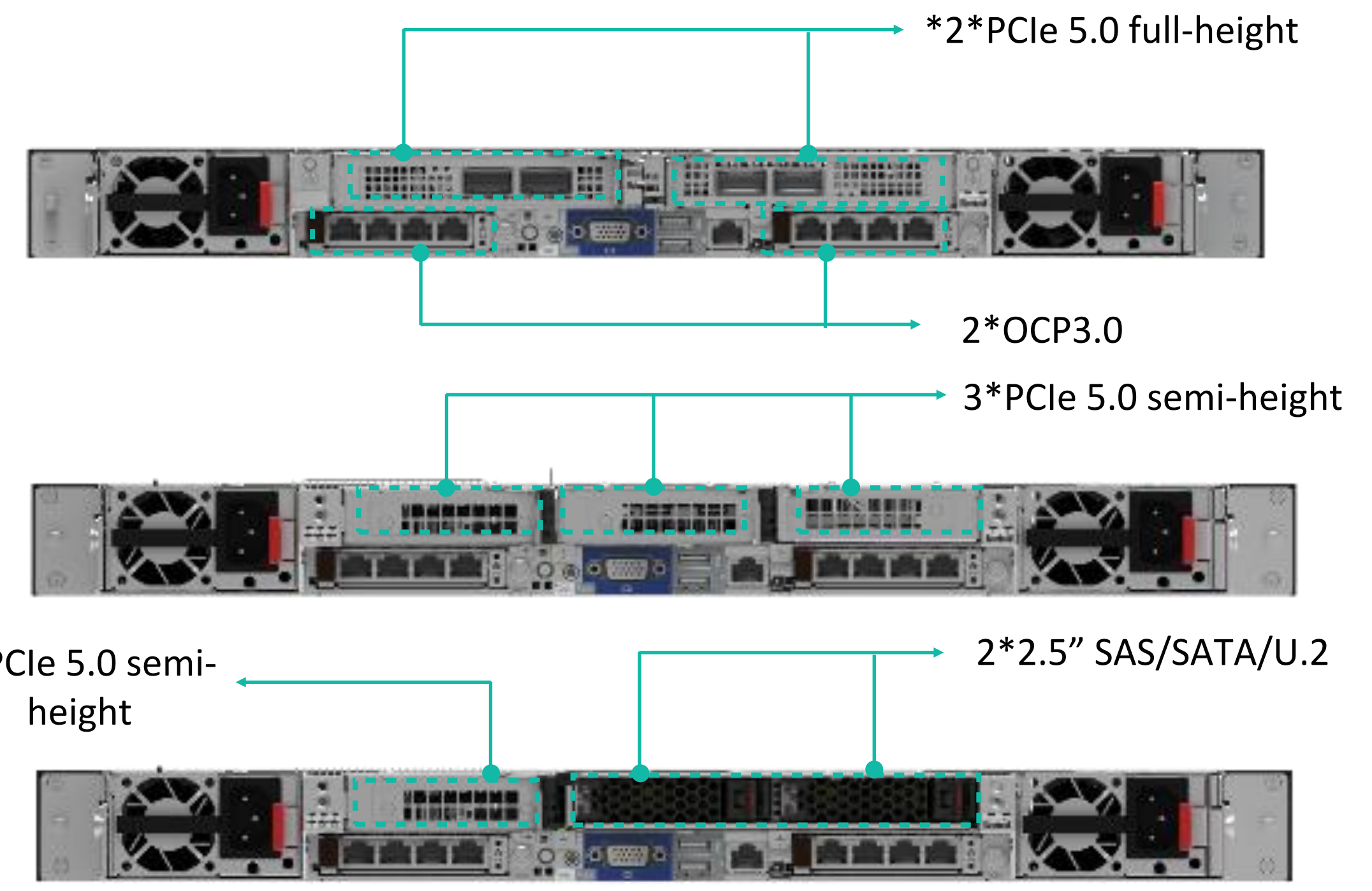
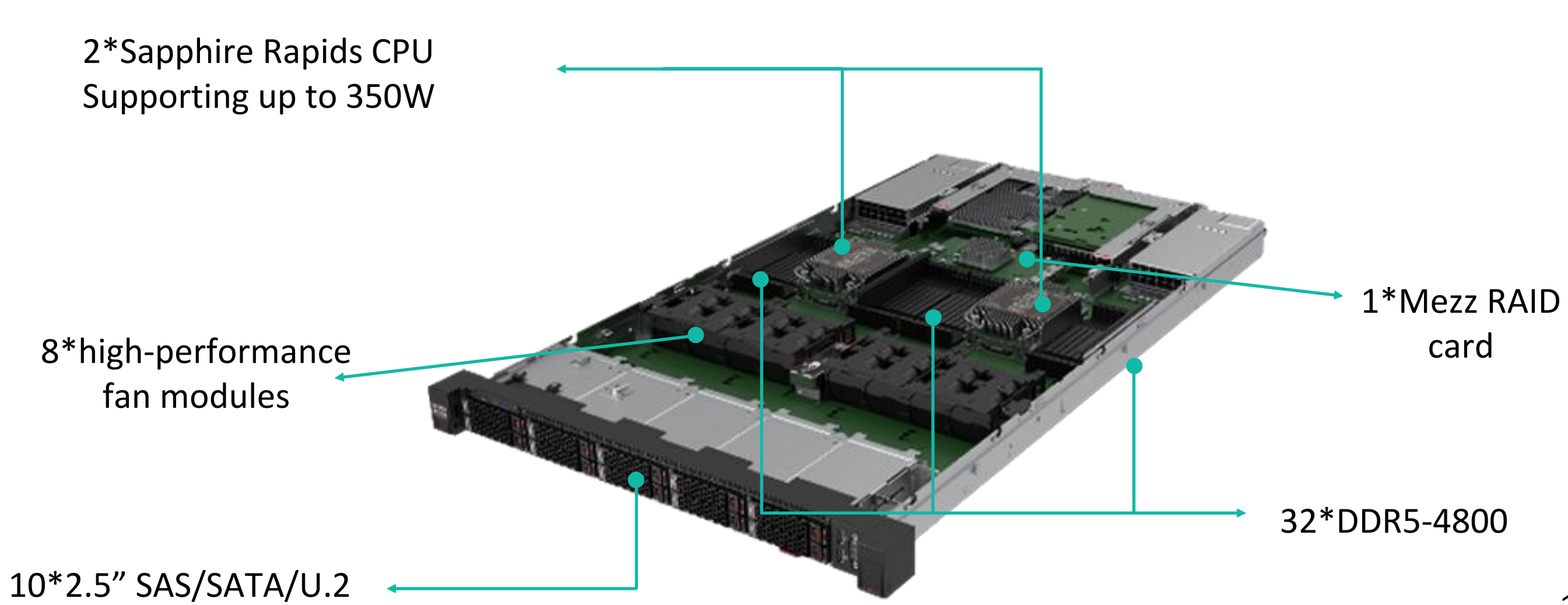
14 PCIe expansion slots,  
 It provides hardware guarantee for user service expansion

## Multiple power configurations

Supporting -48V DC and 110/220V AC, 240V, 336V high voltage DC

Best fit for various scenarios, such as the Internet, virtualization, cloud storage and AI

# VANTAGEO 1240-RE Quick View



## High density, high performance

- CPU has up to 120 cores
- Dual-CPU high-speed interconnection, three-channel UPI fast interconnection, speed up to 16GT/s
- 32 DDR5 memory, up to 4,800MT/s
- High-speed I/O, supporting high-performance NVMe SSDS

## Ultra-powerful scaling capabilities

- 112 2.5" disk slots to meet large-capacity storage requirements
- Multiple storage and RAID cards can be flexibly configured based on service requirements
- Multiple motherboard options are made to meet different configuration requirements
- Powerful expansion capability, up to 6 PCIe expansion slots
- Supports MultiHost OCP NICs

## High availability, high reliable

- Key components are configure in hot-swappable mode
- Supporting power failure protection
- Power modules support 1+1 redundancy
- Trusted platform module (TPM/TCM)
- Intrusion detection

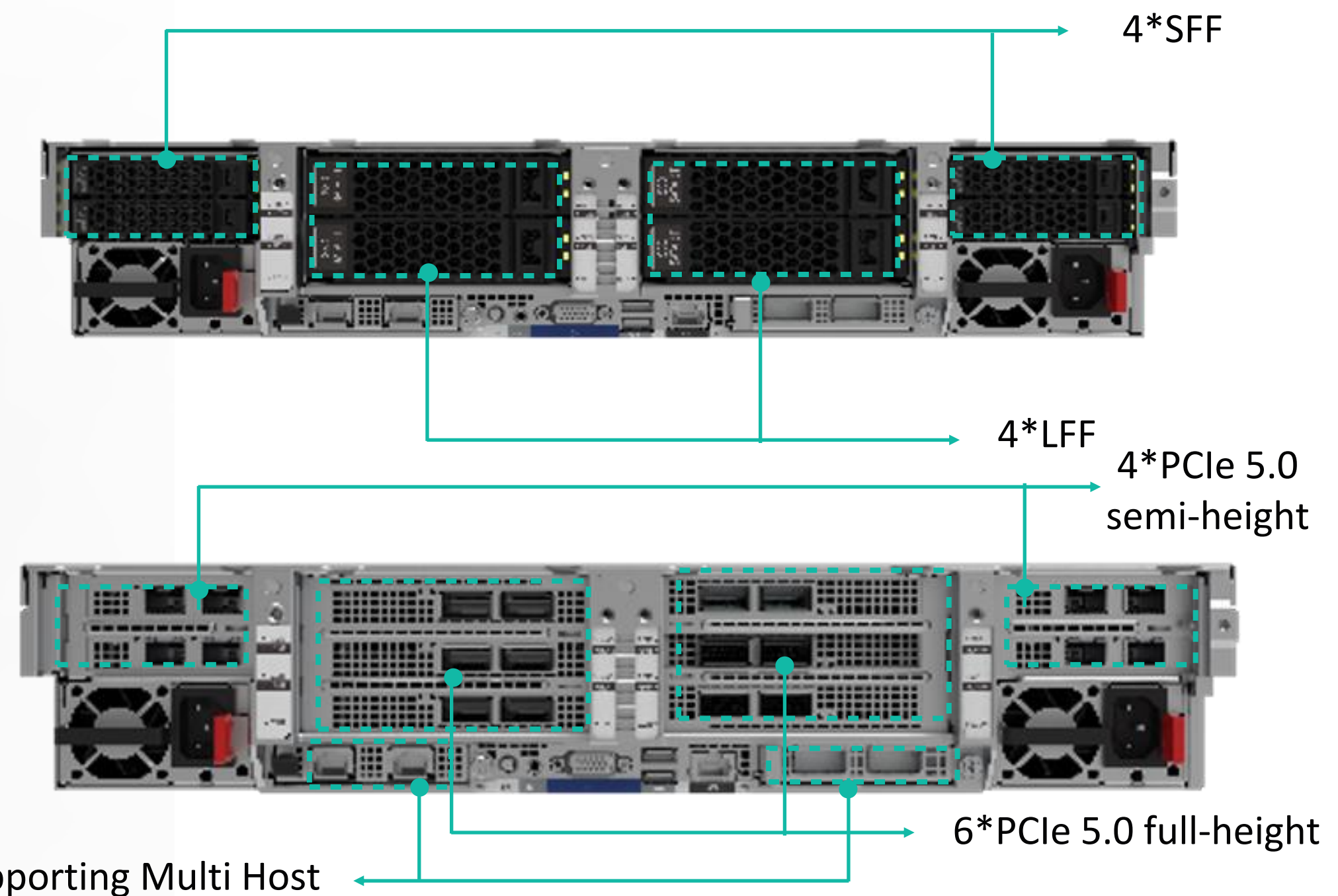
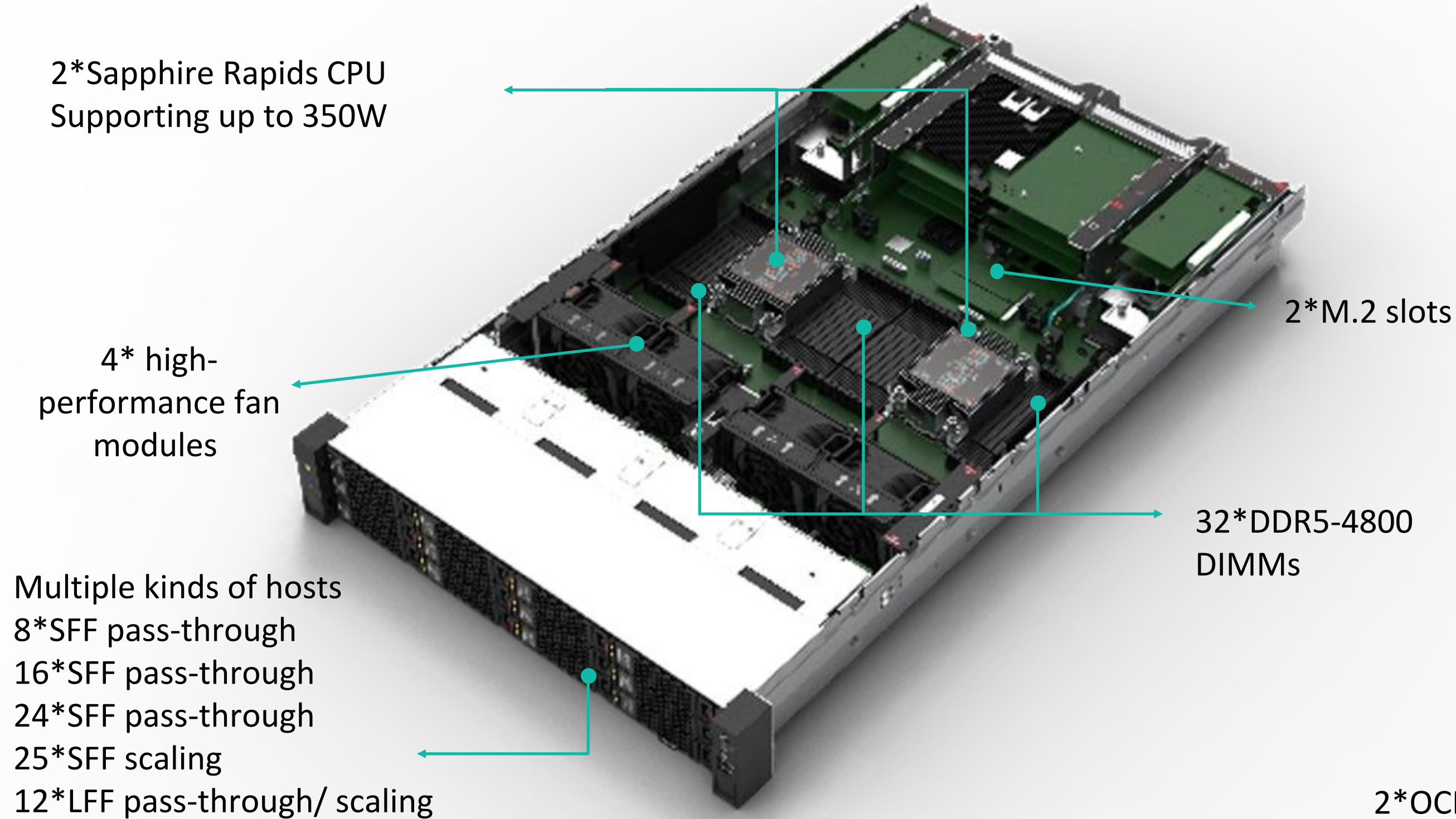
## High availability, high reliable

- High energy efficiency Titanium and Platinum power supply
- Supporting 110V/220V AC, 240V/336V HDC, and -48V DC
- System intelligent cooling design
- Lead-free design, environment protection

Best fit for compute-intensive scenarios such as the Internet, IDC and cloud computing



# VANTAGEO 2240-RE Quick View



## High performance

- Two Intel® Xeon® 4th generation scalable CPUs
- Supporting 20 PCIe 5.0 expansion slots
- Supporting four dual-width GPUs or 14 single-width GPUs
- Supporting high-performance NVMe SSDS

## High scaling, high bandwidth

- 45 2.5"hard disks or 20 3.5" hard disks +4 2.5"hard disks.
- Supporting the hot/swappable mode
- Supporting 34 NVMe U.2 SSDS
- Providing a variety of disk enclosures and RAID card configurations

## High availability, high reliability

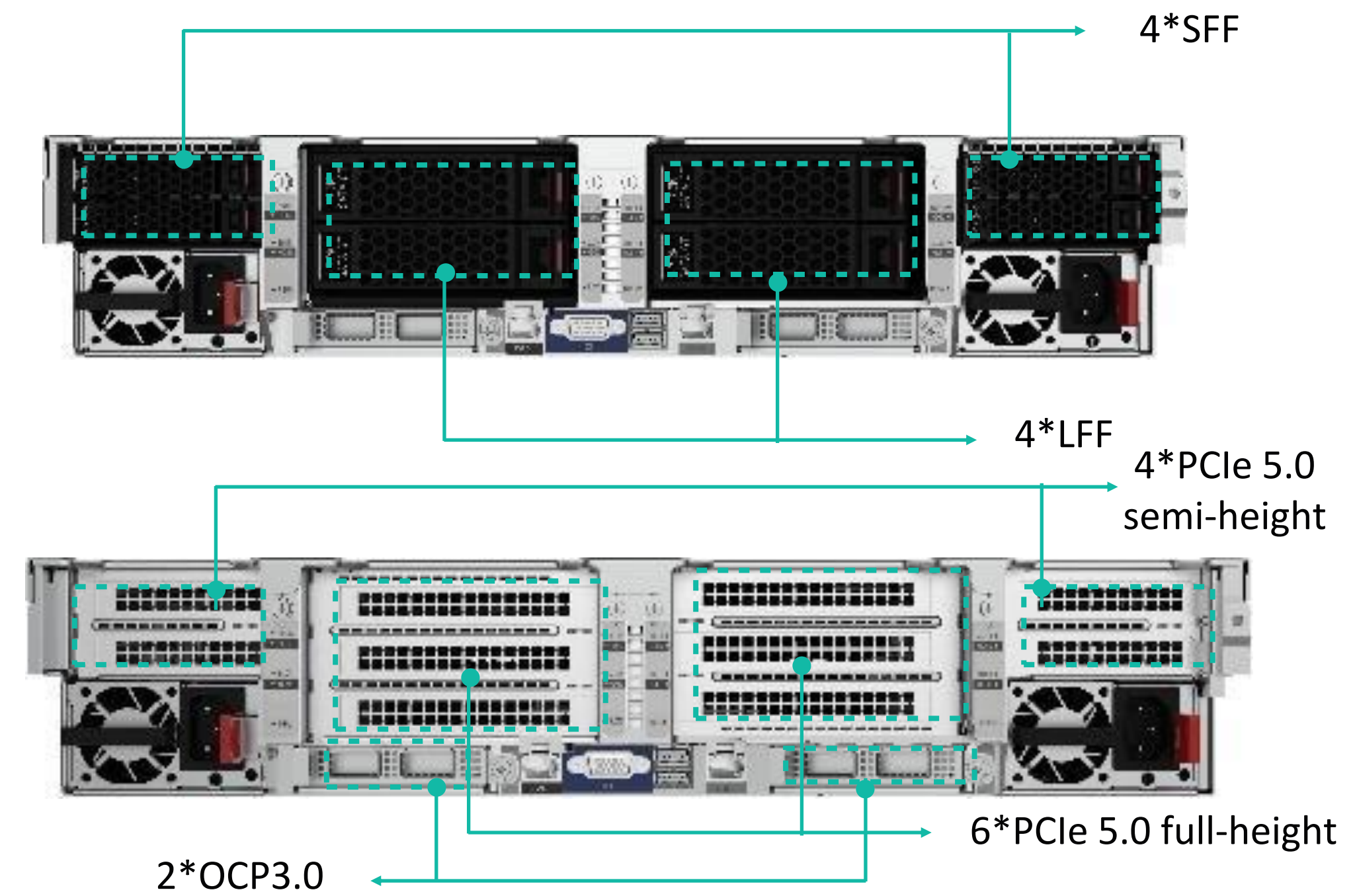
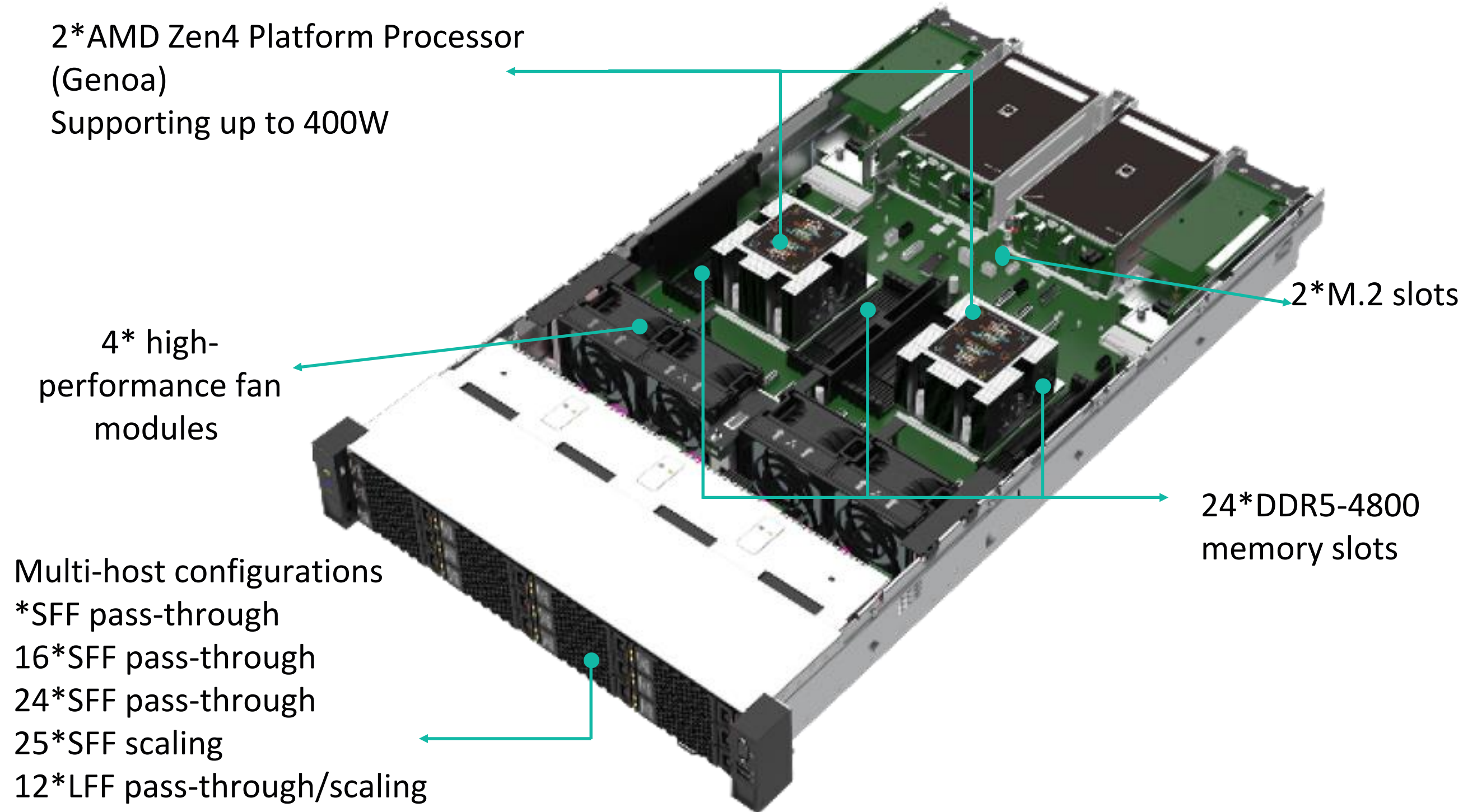
- Key components are hot-swappable
- A variety of data protection solutions are available
- The power supply is in 1+1 redundancy mode and the fan is in N+1 redundancy mode

## Green, energy-saving, environment protection

- High efficiency platinum power supply
- Supporting 110V/220V AC, 240V/336V HDC, and -48V DC
- Intelligent speed control and quiet fan design
- Real-time monitoring of system energy consumption
- intelligent frequency conversion of CPU
- Green and lead-free

Best fit for various scenarios, such as the Internet, virtualization, cloud storage and AI

# VANTAGEO 22G1-RE Quick View



## High performance

Two AMD®EPYC®ZEN4 CPUs, each up to 96 cores  
 24 DDR5 memory, memory rate up to 4800MT/S  
 Supporting 12 PCIe 5.0(including 2 OCP3.0) Supporting four dual-width GPUs or 10 single-width GPUs

## High scaling, high bandwidth

33 2.5 "hard disks or 16 3.5" hard disks +4 2.5 "hard disks.  
 Supporting hot swap  
 Supporting up to 32 NVMe U.2 disks  
 Providing multiple disk enclosure and RAID card options

## High availability, high reliability

Key components are redundant and hot-swappable  
 Supporting multiple data protection solutions Power supply supports 1+1 redundancy and fan N+1 redundancy

## Green, energy-saving, environment protection

High efficiency platinum power supply  
 Intelligent adjustment, quiet fan design  
 Real-time monitoring of system energy consumption  
 CPU intelligent frequency conversion  
 Environment protection and lead-free

Best fit for large-scale deployment scenarios such as the Internet, cloud computing, and virtualization

# Servers Management



vantageo™


 **Red Hat**  
OpenShift  
Certified systems

 **Red Hat**  
OpenStack  
Platform  
Certified systems

 **CentOS**  
Tested systems



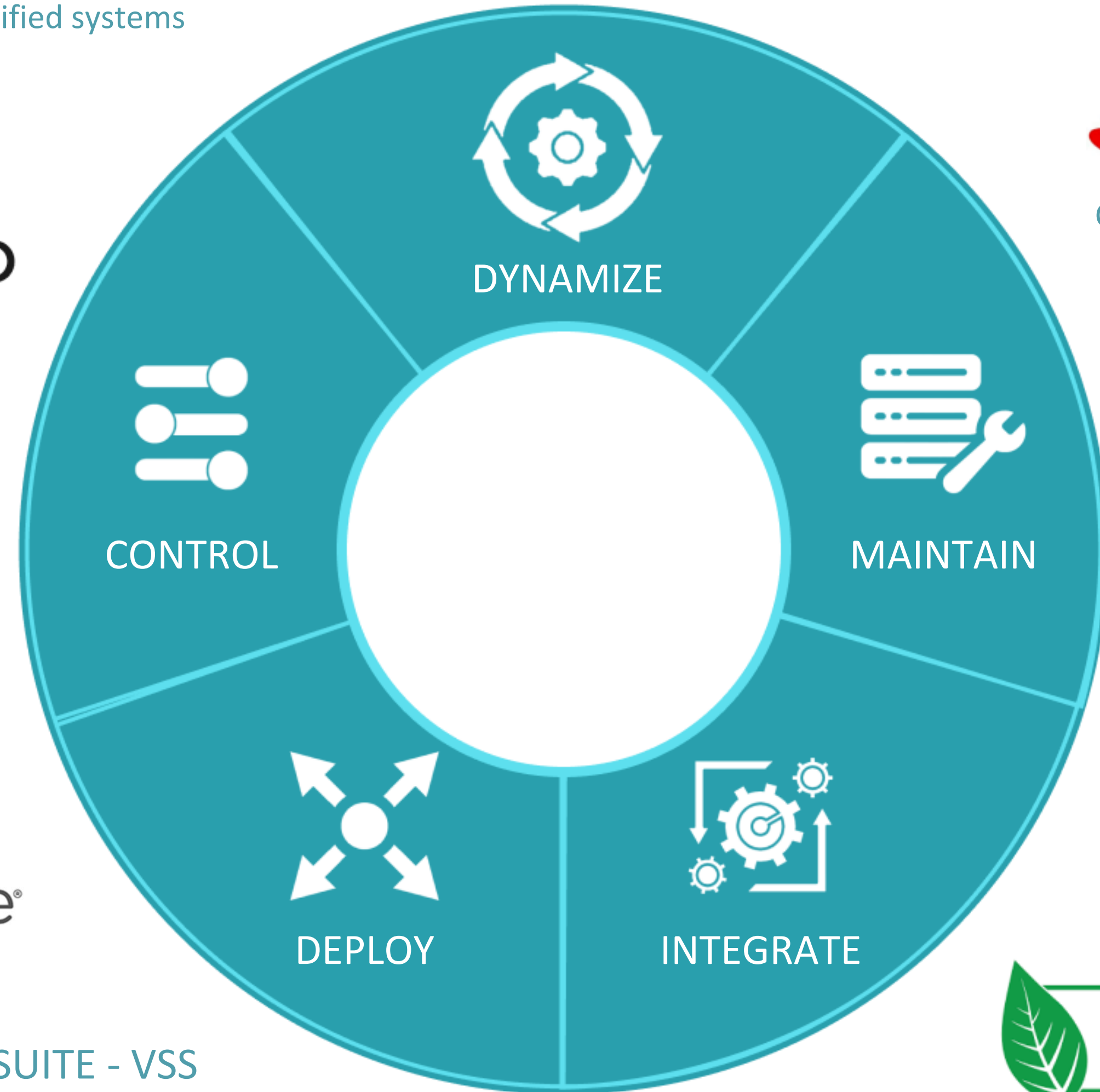
 **Red Hat**  
Enterprise Linux  
Certified systems

 **Virtuozzo**  
Certified systems

 **ubuntu**  
Tested systems

 **vmware**  
CERTIFIED

 **Windows Server 2022**  
Certified



Vantageo Server Management SUITE - VSS

Unified Monitoring

ASSET MGMT

Configuration  
MGMT

Firmware  
MGMT

OS  
Deployment

Power  
MGMT

Fault Diagnosis

The logo for Vantageo, featuring the word "vantageo" in a lowercase, sans-serif font. The "v" and "a" are in a dark grey color, while the "n" and "t" are in a teal color. A small "TM" trademark symbol is positioned to the upper right of the "o".

vantageo™

# High-Speed, Open networking up to 800GbE spine/leaf datacentre switchests

*Powered by Broadcom Enterprise SONiC as well as Silicon chipset*



# Cloud & Enterprise Data Centers Models up to 800G



VE1001-48T

48 x 1 GbE - 6 x 25 SFP



VE1001-48P

48 x 1 GbE + 6 x 25G SFP



VB1001-48P

48 x 1 GbE - 6 x 10G SFP+



VB1010-48T

48 x 10G SFP + 6 x 100G QSFP /  
4 x 25 GbE



VB1010-48S

24x25G + 6x100G 4 x 25 GbE  
48 x 10G SFP+ 6 x 100G QSFP



VB1025-48S

48 x 25G + 8 x 100G  
32 x 10G SFP+ 8 x 100G



VB1100-32Q

128 x 10G SFP+  
128 x 25G SFP28  
32 x 100G QSFP28



VB2100-64Q

256 x 10G SFP+  
264 X 25G SFP  
64 x 100G



VB2400-32Q

32 x 400G QSFP-DD  
128 X 100G QSFP-DD  
128 x 25G QSFP-DD



VB1400-32Q

64 X 200 GbE QSFP56-DD  
128 x 100G



VB2800-64Q

64 x 800G OSFP  
64 x 400G OSFP  
64 x 100G OSFP



# Key Highlights Features



Open networking with Standard Linux and ONIE support	Zero Touch Provisioning (ZTP) support	IPv4/IPv6 switching and routing with eBGP and iBGP	Container-based architecture	Programmability and visibility with gNMI/REST/Openconfig
Advanced silicon telemetry such as Buffer Statistics Tracking & Inband Flow Analyzer	SONiC Unified Manageability Framework	Platform Development Kit (PDDF and PDE)	Automation support: ZTP, Chef, and Ansible Playbooks	L3 protocols such as iBGP, eBGP, VRRP, BFD, and VRF-Lite
Network Address Translation (NAT)	Full support for VXLAN and Logical VTEP (LVTEP) using BGP-EVPN control plane	Multi-chassis LAG (MLAG)	Multicast features (IGMP snooping, PIM-SSM)	Extending SONiC to Campus use case

# Open Networking Solution Powering Cloud & Enterprise Data Centers



## #1 Switch HW

Comprehensive portfolio.

Broadcom Silicon (1/10/25/100/400/800G)



## #2 Software

Broadcom ENT Enterprise SONiC

Predictable roadmap

Qualified Solution

Directly load & boot on ONIE based hardware



## #3 Orchestration

End-2-End Solution

Automation (APSTRA / Ansible)

Monitoring (CA / AIOps)

Software Defined Networking



## #4 Software Support

Support available at all levels

Level 1 and Level 2 Support from Vantageo

Level 3 Support from Broadcom



The logo for Vantageo, featuring the word "vantageo" in a lowercase, sans-serif font. The "v" and "a" are in a dark grey color, while the "n" and "t" are in a teal color. A small "TM" trademark symbol is positioned to the upper right of the "o".

vantageo™

# Unified Cloud Container Hyperconverged Platform

*Vantageo Virtuozzo Platforms*

---



# Full Stack Cloud Platform Vantageo Virtuozzo

Self-Service UI For internal user

Admin Panel for infra manager

OpenStack API



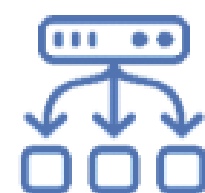
Compute Service



Kubernetes integrated



S3-Compatible Storage



Load Balancing



Backup integrated



Identity Service



Image Service



VPN Service

OpenStack

Multi-Tenancy

Orchestration

Software-Defined Network

Prometheus / Grafana Monitoring

Virtuozzo KVM Hypervisor

Virtuozzo Storage

Application management

Infrastructure management

For Enterprises

&

Service Providers

# One platform instead of 5 separate VMware products



vmware®

Cloud Director

vSphere

NSX

Chargeback

vSAN

Consolidated in a  
single turnkey solution

## Virtuozzo

Hybrid Infrastructure

Multi-tenant management  
and self-service panel

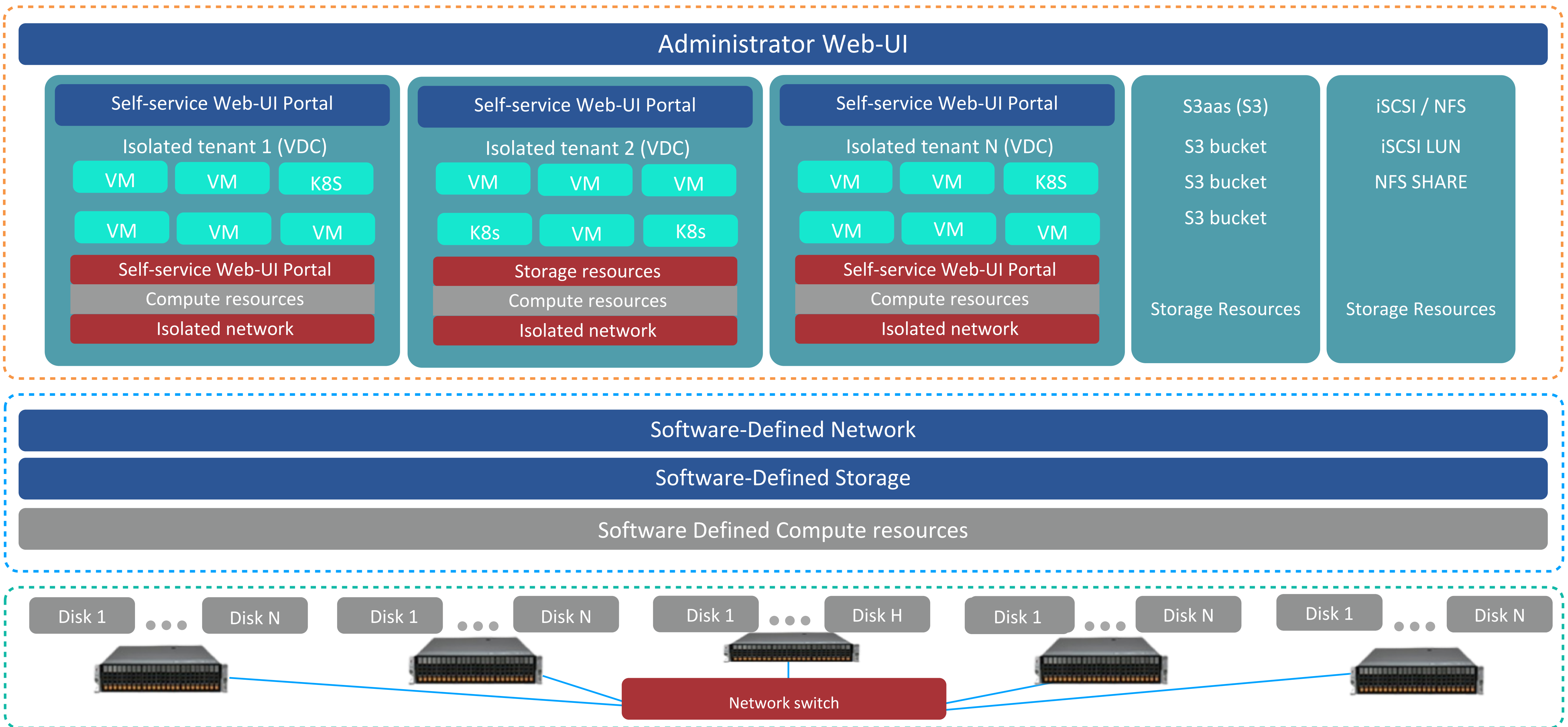
Hypervisor (KVM)

Software Defined Network

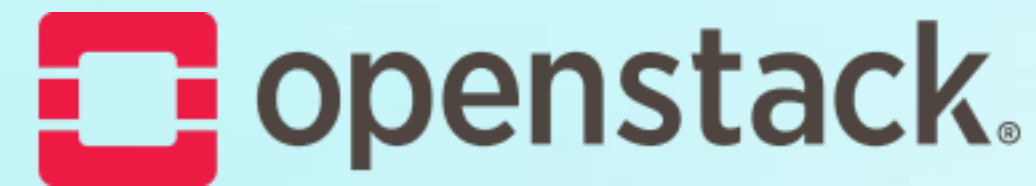
Metering and reporting tool

Software Defined Storage with  
Unified and S3

# Hybrid Infrastructure



The Enterprise Ready



Out of the box cloud including all components: virtualization, storage, orchestration, network, UI

Automated installation and updates for all components without downtime, meaning significantly lower TCO and risks

Integrated software-defined storage

Leverage the global HCI market expertise

The best developers and engineers for storage, KVM and OpenStack components

Commercial support for all components enables a predictable SLA

## The OpenStack Marketplace



TRAINING



DISTROS & APPLIANCES



PUBLIC CLOUDS



**HOSTED  
PRIVATE  
CLOUDS**



REMOTELY  
MANAGED  
PRIVATE  
CLOUDS



INFRA  
SOLUTIONS &  
CONSULTING



DRIVERS

## Virtuozzo Hybrid Infrastructure

Virtuozzo's enhanced OpenStack-based cloud platform enables private cloud through hosted, on-premises and hybrid deployment models. It enables IaaS, PaaS, LBaaS, S3aaS, K8aaS and other cloud services in a single turnkey solution.



POWERED

This product is OpenStack Powered. It contains OpenStack software and has been validated through testing to provide API compatibility for OpenStack core services. [Learn more about the testing criteria and core services here.](#)

The logo for Vantageo, featuring the word "vantageo" in a lowercase, sans-serif font. The "v" and "a" are in a dark grey color, while the "n" and "t" are in a teal color. A small "TM" trademark symbol is positioned to the upper right of the "o".

vantageo™

A vertical teal bar on the left side of the text.

VANTAGEO  
Storage Solutions

# Enterprise Storage 5300 SERIES



## VXS5312

Start Small and Scale as Needed



## VXS5326

Comparable to All-Flash Array Performance



## VXS5324

Performance, Capacity for Mixed Workloads



## VXS3126

The Best Entry-Level All-Flash Array Data Storage



### Versatile Connectivity

Each controller with built-in 4-port 10 GbE (SFP+) and maximum 12 host ports allows direct connection to multiple hosts without switches

### Modern Simplicity

Simplify storage management with the intuitive and powerful XEVO storage manager interface.

### Outstanding Performance

Excellent performance with 12.8 GB/s and 1.3M IOPS, outstanding scale-up capability up to 16.7 PB.

### Dependable Data Experience

99.9999% high availability design with no single point of failure, cache-to-flash to protect cache data in power outage.

#### CPU

Intel® Xeon® 4-core Processor

#### RAM

32 GB DDR4 ECC DIMM (up to 512 GB)

#### Active-Active Architecture

Dual-Active Design

#### High Availability

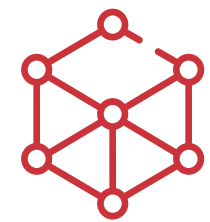
Fully Redundant Modular Design

# Vantageo S3 Object Storage Cluster



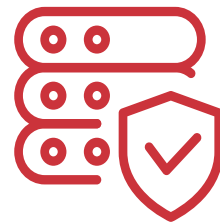
Secure, immutable, scalable and cost-efficient backups and app data storing with VANTAGEO S3-compatible object storage.

Keep your data on-premise within your data center, behind your firewalls. Or store it hassle-free within Virtuozzo Hybrid Cloud.



### Data Control and Sovereignty

On-premise storage installation gives full control over your data, including the choice of specific geographic locations and ability to meet the required regulations.



### Security and Protection

Isolated instances with built-in data protection mechanisms and access controls that help to protect your backed-up data from unauthorized access and ensure compliance with data security regulations.



### Performance

Data locality, SSD cache, parallel processing capabilities and near-linear scalability work together to deliver exceptional level of performance.



### Scalability

Effortlessly accommodates growing backup needs without complex management.



### Cost Efficiency

With on-premise storage installation you can leverage existing infrastructure investments using commodity hardware and have full control over hardware procurement.



### High Availability & Redundancy

Data resiliency and consistency, split-brain protection, geographical redundancy, replication and erasure coding ensures data availability.



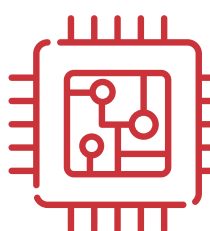
### Fine-tuned for AI / ML applications

Engineered to meet the requirements of AI and machine learning applications, with optimized performance, high-speed access and scalability for handling vast amounts of data



### Software or Appliance

Choose the deployment model to meet your business needs – install software on your infrastructure or request a ready-to-go appliance.



### Compliance and Compatibility

Compliant with various security and data protection standards, including HIPAA, PCI DSS, and ISO 27001. Compatibility with S3-enabled software like Acronis, Veeam, Rubrik, etc.



## Virtuozzo S3 Compatible Object Storage

- ✓ Full data control with on-premise installation
- ✓ Enhanced security & compliance capabilities
- ✓ Fine-tuned for AI and ML applications
- ✓ Built-in data protection mechanisms
- ✓ Data integrity and availability
- ✓ Compatibility with S3-enabled apps

### Backup Integration with



Acronis

VEEAM

rubrik

VERITAS

storware

TRILI



vantageo™



VANTAGEO HPC  
Systems



# VANTAGEO HPC Appliances Portfolio



## Rack Servers



U 10 x 2.5"  
Dual Intel® Xeon Scalable Processors  
24 memory slots  
2 x 10GbE



2U 12 x 3.5"  
Dual Intel® Xeon® Scalable Processors  
12 memory slots  
2 x GbE



2U 4 node, 24 x 2.5"  
4 x AMD EPYC™ single socket  
3 x16 PCIe Gen. 4 slots each node

## Multi Nodes



Multi-node Server delivers the highest performance and efficiency in a multi-node design creating the flexibility to deploy independent workloads on a shared chassis infrastructure, including cooling and power

## GPU Nodes



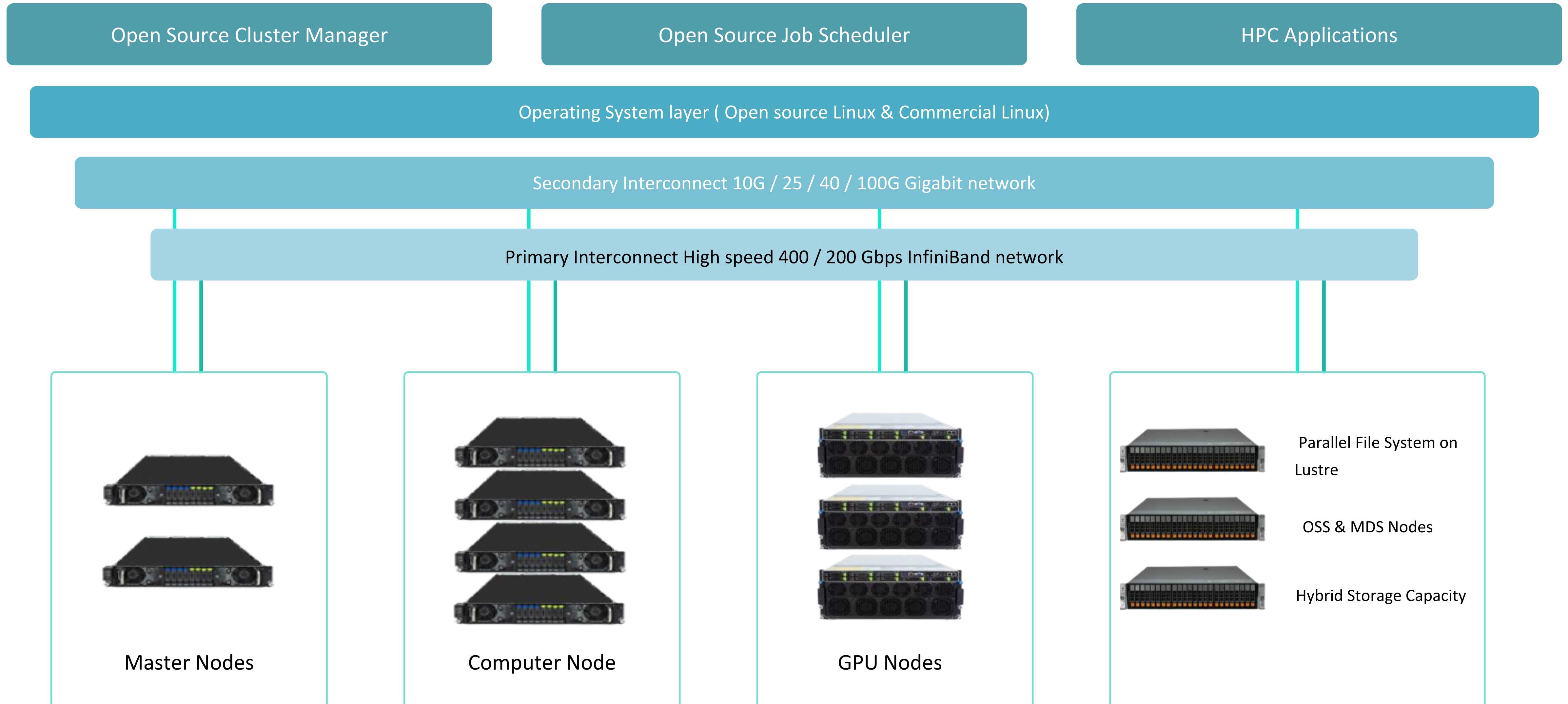
- 2U dual GPU server supports 8 hot swap 3.5" SATA drive bays
  - Supports 2nd Gen. Intel® Xeon® Scalable processors (CascadeLakeRefresh/CascadeLake/Sky lake)
  - Intel® C620 Series Chipset to provide 5+ years product life cycle
  - Flexible I/O usage with Max I/O® to support 4 x PCIe Gen3 x16 slots

## Storage Server



- 4U general purpose storage server supports 24 hot swap 3.5" SAS drive bays
  - Supports 2nd Gen. Intel® Xeon® Scalable processors (Cascade Lake Refresh/Cascade Lake/Skylake)
  - With Intel® Lewisburg C620 series Chipset to provide 5+ years product life cycle
  - Onboard Baseboard Management Controller for system management and IPMI control

# VANTAGEO HPC Architecture










vantageo™

VANTAGEO  
AI Systems

# VANTAGEO AI Appliances Portfolio



Model	Configuration	GPU Qty	Best Fit for
 2530-WS	1. Dual 3rd Generation Intel® Xeon® Scalable processors 2. 18 DDR4 ECC DIMM slots 3. PCIe - 4 PCIe 4.0 x16, 2 PCIe 4.0 x8	1 x RTX	AI data preparation, model design, preliminary model training and education . Computer Vision AI at edge
 2230-RS-GPU	1. Dual 3rd Generation Intel® Xeon® Scalable processors 2. 16 DDR4 ECC DIMM slots 3. 2x PCI-E Gen 4x8 / 4x PCI-E Gen4x16 4. NVMeSupport	2 x A100 / L40/L4	AI Training & AI Inference Computer Vision & Intelligent video Analytics Lost Prevention Smart Speech
 2240-RS-GPU	1. Dual 4th Generation Intel® Xeon® Scalable processors 2. 24 DDR5 ECC DIMM slots 3. 4 x FHFL PCIe Gen5 x16 or 8 x FHFL PCIe Gen5 x8 slots for GPUs 4. NVMeSupport 5. 2 x LP PCIe Gen5 x16 slots for add-on cards	4 x A100/ L40	AI Training & AI Inference NLP Speech AI Fraud Deduction Predictive Maintenance
 2540-RS-GPU	1. Dual 4th Generation Intel® Xeon® Scalable processors 2. 32 DDR5 ECC DIMM slots 3. 4 x FHFL PCIe Gen5 x16 or 8 x FHFL PCIe Gen5 x16 slots for GPUs 4. NVMe Support 5. 2 x LP PCIe Gen5 x16 slots for add-on cards	8 x H100	Large AI Training Modules & AI Inference ,NLP ,Speech AI, Fraud Deduction & Predictive Maintenance
 2430-RS-60-ST	1. Dual 3rd Generation Intel® Xeon® Scalable processors 2. 16 DDR4 ECC DIMM slots 3. 2x PCI-E Gen 4x8 / 4x PCI-E Gen4x16 4. NVMeSupport		Processing large data sets and Storing unstructured data

# VANTAGEO NVIDIA AI Software Solutions Stack



## NVIDIA AI Enterprise Software Stack



AI and Data Science Tools and Frameworks

Tensor Flow

PyTorch

NVIDIA RAPIDS



Cloud-Native Deployment

NVIDIA TensorRT

NVIDIA Triton Inference Server



Infrastructure Optimization

NVIDIA vGPU

NVIDIA Magnum IO

NVIDIA CUDA-X AI



Cloud Orchestration

Linux Operating System

Containerization

## Vantageo Appliance



2530-WS



2230-RS-GPU



2240-RG-GPU



2540-RG-GPU



2430-RS-60-ST

NVIDIA SmartNIC/DPU  
Network and Infrastructure Acceleration

NVIDIA GPU  
Application Acceleration

# VANTAGEO AI 2450-RG-GPU Quick View



## Most High-end CPU support

Under 35 degree air cool, with excellent thermal solution, 2540-RG-GPU series is able to support the high end CPU on Sapphire Rapid/Genoa platform.

## 700W H100 SXM5

With liquid cool support, 2540-RG-GPU is able to excel the best performance of HGX H100.

## Front Serviceable GPU Tray

Easy access GPU tray for H100 SXM5 for maintenance

## 6x CRPS Redundant PSU

With option for CRPS 3600W PSU, it's able to reach N+N.

## Advance Cooling

Partner with CoolIT, 2540-RG-GPU supports D2C liquid cool on CPU/GPU/NVLink to have better PUE and reduce energy consumption

## Root Port Options

With different application requirement, offers either 4-root ports and 8-root ports

## 1:1 Balance Design

With RDMA/NVMe Direct Storage  
With same number GPU & storage & PCIe slots under each PLX, it is perfect to use GPU RDMA & NVMe direct storage .

Standard  
5U  
Form Factor

Support DP  
350W  
TDP

Up to  
3 2 x 4800 MHZ  
TDP

Support  
8 x HGX H100  
GPU

Support  
Liquid Cool  
CPU/GPU/NVLink

Up to  
8x U.2 + 4x M.2  
Drives

Supports for  
12x  
Expansion Slots

## PARAM VIKRAM 1000

Proud to build 1 Petaflops Supercomputer for INDIA

ISRO's one of the flagship research institute PRL (Physical research Laboratory). Vantageo systems performance benchmark nearly 1000 Teraflops of compute & GPU workload of 7.6k+ CPU cores & 150k+ GPU cores.

<https://www.prl.res.in/prl-eng/paramvikram1000/architecture>

Vantageo is Ranked 14 is India top 100 Supercomputer List published by CDAC

<https://www.prl.res.in/prl-eng/paramvikram1000/architecture>

## Ranked 14





### 24 x7, 4 Hours CTR Covered Cities

Mumbai, Thane & Navi-Mumbai

Delhi, Gurgaon & Noida

Bangalore

Hyderabad

Chennai

Ahmedabad

Pune

Jaipur

Kolkata

Cochin

Powered by



## VANTAGEO 24/7 Support SLA Offered 220 Locations in India

Support Particulars	STANDARD	SILVER	GOLD	PLATINUM
Helpdesk Access	9x5	24x7	24x7	24x7
Onsite Support	Yes	Yes	Yes	Yes
Response Time	24 Hrs	8 Hrs	4 Hrs	4 Hrs
Part Shipping / Supply	Yes	Yes	Yes	Yes
Part Replacement Activity	Yes	Yes	Yes	Yes
Recovery Time SLA	Best Efforts	NBD	8 Hrs	4 Hrs
BIOS Update support	No	Yes	Yes	Yes
Firmware Update Support	No	Yes	Yes	Yes
Integration Support - L3	No	No	Yes	Yes
Development Support - L4	No	No	Yes	Yes

Contact: [wecare@vantageo.com](mailto:wecare@vantageo.com)

Toll Free: 1800 266 9898



# Where to buy



<https://ivaluegroup.com/corporate/about-us/>

## Distributors



<https://rahinfotech.com/about-us/index.html>

## Authorised Business Partners



# Customer References



THANK YOU!



## Contact Us

### Phone Numbers

Sales | (+91) 98339 86727

Support 1800 266 9898 (Toll Free)

### Email

Sales | [sales@vantageo.com](mailto:sales@vantageo.com)

Service | [support@vantageo.com](mailto:support@vantageo.com)

Vantageo Proprietary & Confidential

vantageo™