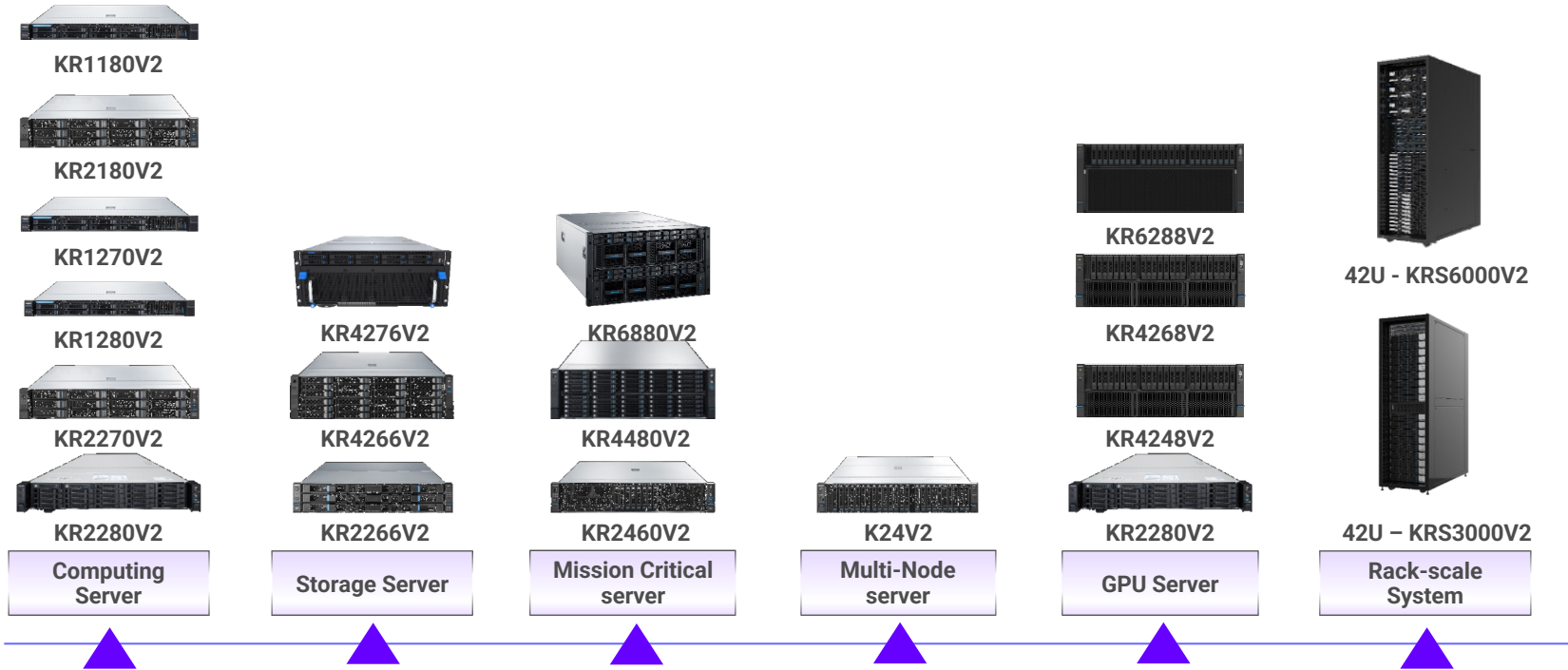



Diversified Products for Efficient Computing


Scenario-based optimization design




Purpose-built, Optimal performance, Secure and Open

Energy saving

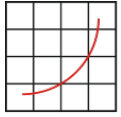
- 

Optimized thermosiphon cooling
Liquid cooling
- 

Waveguide cooling
- 

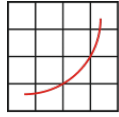
Dynamic energy-savings management

Leading Performance, Maintainability and Security



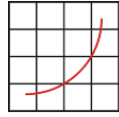
spec®

40+ No.1 SPEC
CPU/Power
1U Server



spec®

70+ No.1 SPEC SPEC CPU/ JBB/
VIRT/ CLOUD
2U Server



spec®

40+ No.1 SPEC
CPU/JBB/Power
4U Server

Performance

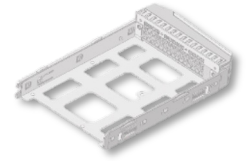
Break-thru design with extreme performance



DC-SCM Decouples
Mgmt. and Compute



40% ↑ O&M Efficiency via
HW Mgmt. Suite



Tool-less
Riser/Tray

Easy Maintenance

Improve deployment and O&M efficiency



MTBF 200,000
Hours



Grade 9
anti-seismic



HW Redundancy
BIOS/BMC

Reliability

Ensuring the highest uptime



Dual Factor Authentication



PFR



SGX

Security

Integrate security assurance in product lifecycle



kubernetes



docker



APACHE
Spark



ceph



hadoop
HDFS

Application Tuning

Application and Service Optimized Project

Energy-Efficient Design to Reduce TCO

Power Control



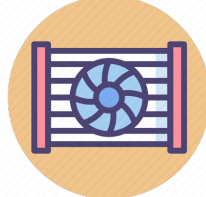
Centralized Power Supply
Reduce the PSU quantity and improve power efficiency by **5%**

Power Capping
increasing deployment density and reducing energy consumption

High Voltage Direct Current (240V/336V HVDC)
increasing PSU energy-efficiency up to **96%**

40+ Workload Profiles
Automatic BIOS settings to match the selected workload

Cooling Control



Front I/O
Reduce average failure rate by **90%**, improve the heat-sensitive components lifetime by **200%**

Intelligent Fan Speed Control
Up to **40%** Fan Power Saving

Centralized Cooling
Reduce the cooling energy consumption by **15%**

Direct Liquid Cooling
Reduce the data center PUE to be **less than 1.2**

Component-level Power Saving



Hard Drives Sleep Mode
Up to **89%** energy saving on each drive

Innovative Air Baffle Design
Allowing higher ambient temperature up to **2°C**, saving cooling cost up to **8%**

Hard Drives Staggered Spin-up
Reduce the PSU cost and reduce the power consumption by **5%**

Components Power Consumption Monitoring
Brings **precise energy-saving** management and schedule

Intelligent Monitoring



Fan Zone Control
Dynamic fan status control via real-time sensors reduce energy consumption of fans by **40%**

Real-time Monitoring
Real-time power consumption via sensors and threshold-based **alarm system**.

Power Consumption Statistics
Statistics of DC **cooling**, server **usage** and power **consumption**.

Carbon Emission Management
Carbon emission **trend analysis**, Carbon **Allowance Utilization Rate**.