

Hyperscale clouds of tomorrow

Based on AMD EPYC™
Processor

Authorised
Hyperscalers
Partner



Network | Storage | Compute | Converged | Hyperconverged

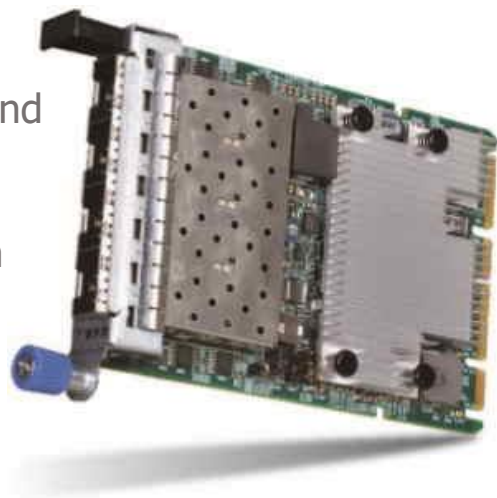


Solving Information
Technology's Complexity



Next Generation Network: OCP 3.0 Mezzanine

- Up to 200GbE with
- PCIe x16 bandwidth
- Hardware optimized for Pull-Tab, Ejector and Internal lock types of OCP Mezzanine
- PCIe 4.0 ready; backward compatible with PCIe 3.0
- OCP 3.0 to OCP 2.0 adapter for legacy utilizations



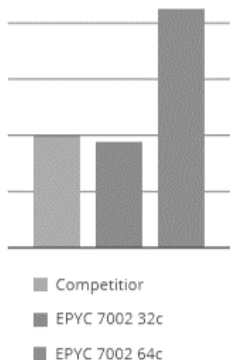
Breakthrough Performance

- Dual 64-core AMD EPYC™ 7002 series processors score more than twice as the 2-Socket competitor in system level performance.
- The 2nd Gen EPYC™ CPU gained over 200% improvement on CPU and memory processing than the 1st Gen.

SpecCPU 2017 SPECrate Integer
Node performance with Integer workloads

+219%
than competitor's top bin CPU

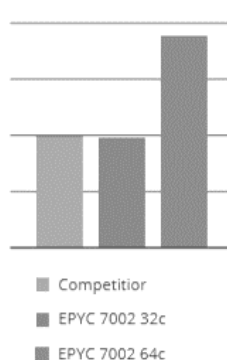
+130.2%
than EPYC™ 7601



SpecCPU 2017 SPECrate FP
Node performance with floating point workloads

+84.4%
than competitor's top bin CPU

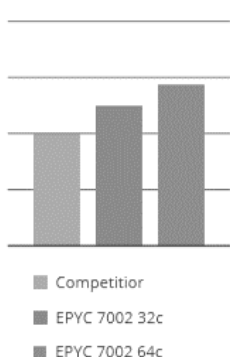
+85.7%
than EPYC™ 7601



Stream
Pure memory throughput

+41.7%
than competitor's top bin CPU

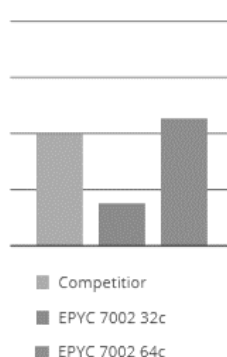
+16.8%
than EPYC™ 7601



High-Performance Linpack (HPL)
CPU and memory processing

+13.9%
than competitor's top bin CPU

+213.3%
than EPYC™ 7601



CPU Spec to Spec Comparison

Feature	AMD EPYC™ Processor	Competition
Max core count per socket	64 cores / 128 threads	28 cores / 56 threads
Max TDP	225W configured to 240W	205W
Memory channels /socket	8ch , 2DPC	6Ch, 2DPC
Memory frequency	3200Mhz	Up to 2933mhz
CPU interlinks	xGMI-2 16 GT/s	10 GT/s
PCIe Lane	128 PCIe Lanes 4.0	48 PCIe lanes 3.0

PCIe 4.0 vs PCIe 3.0

Feature	PCIe 4.0	PCIe 3.0
Bandwidth	16 Gb/s	8 Gb/s
Throughput with PCIe x 8 slot	100 GbE NIC Support	50 GbE NIC Support
Throughput with PCIe x 16 slot	200 GbE NIC Support	100 GbE NIC Support

D43K-1U Ultimate 1U Server with EPYC Performance Breakthrough

- Dual AMD EPYC processor with up to 4TB memory capacity
- Up to 5 expansion slots optimized for PCIe 4.0 and AI workloads
- Enhanced serviceability with tool-less, hot-swap design



2.5" SKU – 12 * U.2 NVMe

3.5" SKU

Processor

(2) AMD EPYC™ 7002 Series Processor, up to 225W TDP (240W cTDP)

Memory

Up to 4TB memory capacity with (32) DDR4 DIMM slots. Supporting 3200 Mhz 1DPC

Storage

(12) 2.5" U.2 SSD

(4) 3.5" SATA/SAS drives
Optional (4) 9mm NVMe/SATA/SAS drives

Network Control

(1) OCP 3.0 mezzanine
(2) 1 GbE dedicated management port

Expansion Slot

(1) PCIe 4.0 x8 SAS mezzanine slot
(1) PCIe 4.0 x8 OCP 3.0 mezzanine SFF slot
(2) PCIe 4.0 x16 FHHL or (3) PCIe 4.0 x16 HHHL

Form Factor

1U Rackmount



D43KQ-2U Highly Scalable "EPYC" 2U Server Built for AI



- Scalable configurations built for AI
- Diversified IO options for diversified workloads
- Full featured design optimized for PCIe 4.0



SKU	LFF Tiered SKU	SFF Tiered Expander SKU	SFF SKU - All NVMe
Processor	(2) AMD EPYC™ 7002 Series Processor, Up to 225W TDP (240W cTDP1)		
Memory	Up to 4TB memory capacity with (32) DDR4 DIMM slots. Supporting up to 3200 Mhz 1DPC2.		
Drive Bay	Front (4) 3.5" SATA/SAS drives (8) 3.5"/2.5" SATA/SAS/NVMe drives Rear (Optional) (2) U.2 SSD	Front (16) 2.5" SATA/SAS + (8) 2.5" SATA/SAS/NVMe (SAS/SATA via SAS Mezz) Rear (Optional) (2) U.2 SSD	Front (16) 2.5" SATA/SAS PTP + (8) 2.5" SATA/SAS/NVME (SAS/SATA via SAS Mezz) Rear (Optional) (2) 2.5 " SATA/NVMe SSD
Expansion Slot	(1) PCIe 4.0 x8 SAS mezzanine Option 1: (2) PCIe 4.0 x16 FHHL + (4) PCIe 4.0 x8 FHHL Option 2: (4) PCIe 4.0 x16 FHHL Optional: (1) PCIe 4.0 x8 HHHL, (1) PCIe 4.0 x16 HHHL or (2) 2.5" rear drive		
Network Controller	(1) PCIe 4.0 x8 OCP 3.0 mezz slot (1) Dedicated 1 GbE management port		
Power Supply	1+1 High efficiency redundant hot-plug Platinum/Titanium 1600W/2200W AC PSU, 1600W -48V DC PSU		
Form Factor	2U Rackmount		

S43KL-1U Revolutionary Single Socket Compute Server



- An "EPYC" single socket compute server to challenge traditional dual socket systems
- Automate your processes with AI on a budget
- Full featured design optimized for PCIe 4.0



	SFF 2.5" SKU	LFF 3.5" SKU
Processor	(1) AMD EPYC™ 7002 Series Processor, up to 225W TDP (240W cTDP)	
Memory	Up to 2TB memory capacity with (32) DDR4 DIMM slots. Supporting 3200 Mhz 1DPC	
Storage	(12) 2.5" hot-plug SATA/NVMe SSD	(4) 3.5" SATA/SAS drives Optional (4) 9mm NVMe/SATA/SAS drives
Network Control	(1) OCP 3.0 mezzanine (2) 1 GbE dedicated management port	
Expansion Slot	(1) PCIe 4.0 x8 SAS mezzanine slot Option 1: (2) PCIe 4.0 x16 HHHL & (1) PCIe 4.0 x8 HHHL Option 2: (2) PCIe 4.0 x16 FHH	
Form Factor	1U Rackmount	



D42A-2U All NVMe Server Perfect for CDN & Big Data Analytics



- Perfectly compatible with both EPYC™ 7001 and 7002 Series Processors
- Supports up to 24 U.2 NVMe SSDs
- Up to two PCIe x16 slots for up to 2x 200GbE NICs
- All tool-less design with easy service motherboard tray

24 U.2 NVMe SKU

20 U.2 NVMe SKU

Processor	(1) AMD EPYC™ 7002 Series Processor, up to 225W TDP (240W cTDP)
Memory	Up to 2TB memory capacity with (32) DDR4 DIMM slots. Supporting 3200 Mhz 1DPC
Storage	(24) 2.5" hot-plug SATA/NVMe SSD
Network Control	(1) OCP 3.0 mezzanine (2) 1 GbE dedicated management port
Expansion Slot	(1) PCIe 3.0 x8 OCP 2.0 mezzanine Type A (1) PCIe 3.0 x16 HHHL or (2) PCIe 3.0 x8 HHHL
Form Factor	1U Rackmount

S43CA-2U Density Optimized "EPYC" Multi-node Server



- High Density server design powered by the latest AMD EPYC™ 7002 Series processors
- Single socket EPYC processor with 16 DIMMs per node optimized for compute-centric Data Center requirements
- Aggregated networking infrastructure services



SFF 2.5" SKU

LFF 3.5" SKU

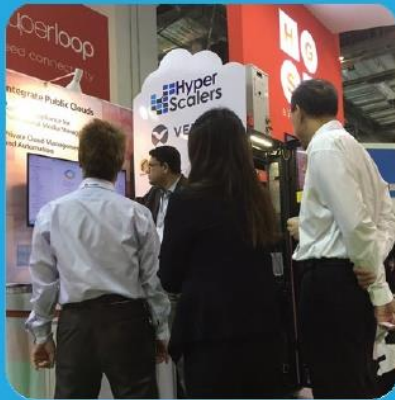
Processor	(1) AMD EPYC™ 7002 Series Processor per node (4), up to 225W TDP (240W cTDP)
Memory	(16) DDR4 DIMM slots per node, Supporting 3200 MHz 1DPC per node (4)
Storage	(2) 2280/22110 NVMe M.2 per node
Front IO	Option 1: (1) PCIe 4.0 x16 FHHL expansion slot per node (2) PCIe 4.0 x16 HHHL expansion slot per node (2) 2.5" hot-plug NVMe/SATA SSD per node Option 2: (5) 2.5" hot-plug NVMe/SATA SSD per node
Expansion Slot	(1) PCIe 4.0 x8 SAS mezzanine slot Option 1: (2) PCIe 4.0 x16 HHHL & (1) PCIe 4.0 x8 HHHL Option 2: (2) PCIe 4.0 x16 FHH
Rear IO	(1 or 2) single/dual 100G port pass-through module
Form Factor	1U Rackmount





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About Hyperscalers

Hyperscalers is the world's first open Original Equipment Manufacturer offering proprietary-free alternative to traditional Tier 1 OEM vendors.

Hereto to solve Information technology's complexity, Hyperscalers developed the IP Appliance Design Process. Which is basically a process along with a utility, being the Appliance Optimizer Utility, which together, assists service providers 'productize' delivery of their Digital-IP.

Technology Partners



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