

ACE 3100-RZ



16

CPU
CORES

5.4

GHz
CLOCKSPEED

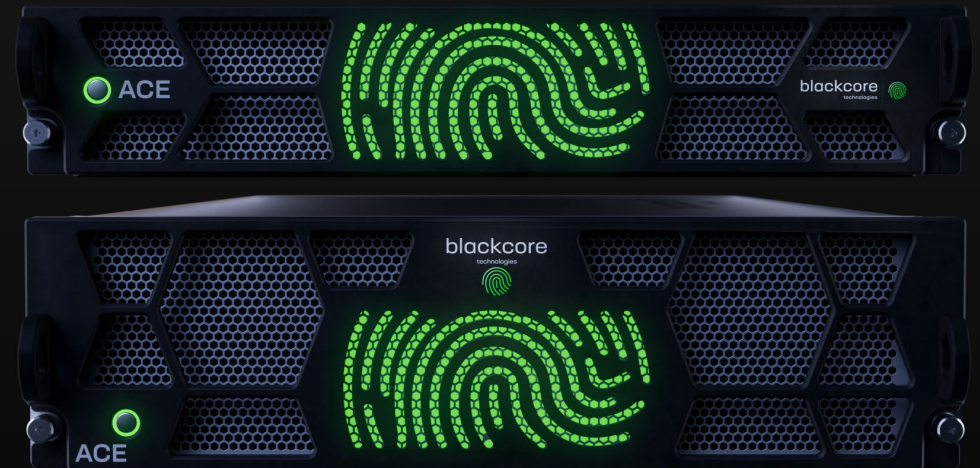
192

GB
RAM

The Blackcore ACE range is an overclocked, liquid-cooled server platform for AMD CPUs. Generating ultimate performance for low latency use cases.

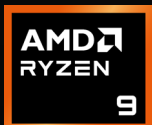
The 3100-RZ series focuses on AMD Ryzen 9950X and boasts 16 Cores overclocked 5.4GHz. The series features 2U and 3U variations with DDR5 ECC support.

Perfect for low core count workloads that benefit from high frequency, but need more cache, or reliability of overclocked ECC RAM.



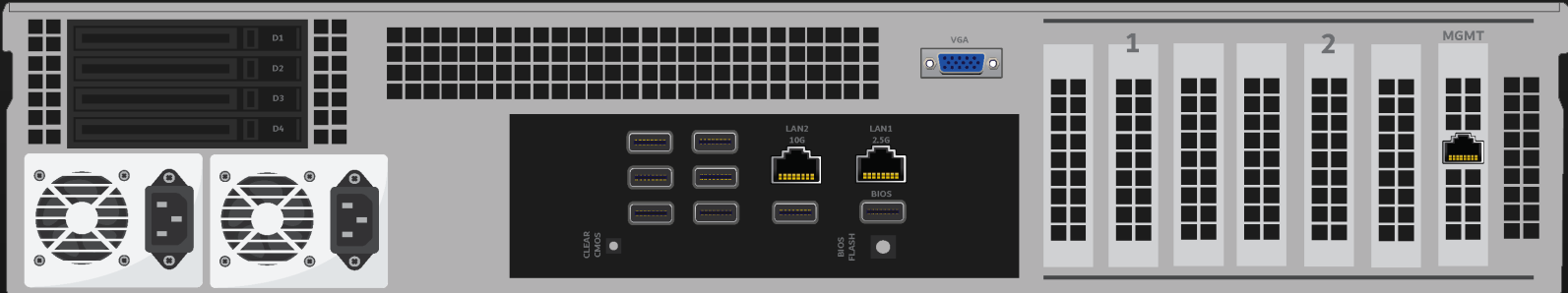
HTS-84715000  

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ACE 3120-RZ

2U Vertical

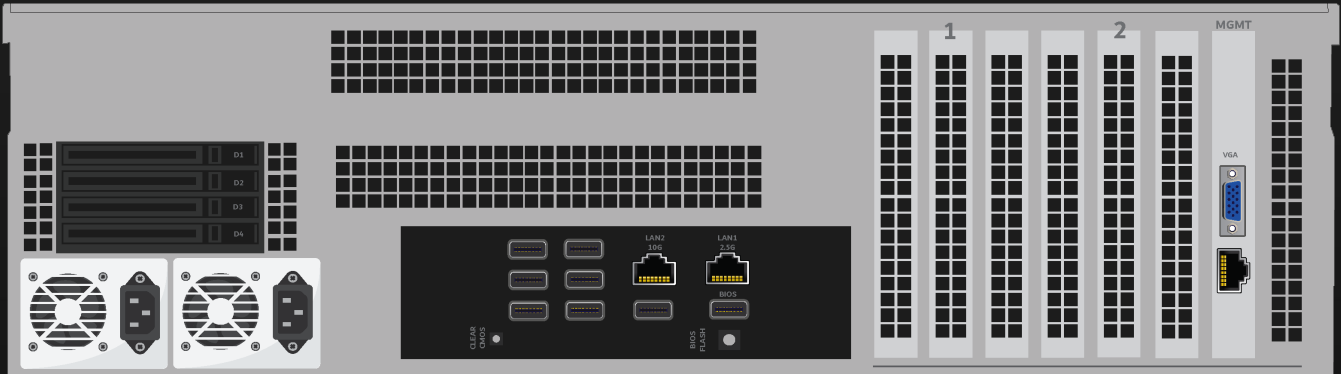


CPU	AMD Ryzen 9950X
CPU Frequency	up to 16 Cores @ 5.4GHz (SSE)
Cache	64 MB
Chipset	AM5
RAM	Up to 192GB DDR5 ECC UDIMM
PCIe	Slot 1 - x16 (Physical) / x16 (Electrical) - HHHL *Only x8 Electrical if Slot 2 populated Slot 2 - x16 (Physical) / x8 (Electrical) - HHHL
LAN	1* RJ45 10GBe - Marvell 1* RJ45 2.5GBE - Intel 1* RJ45 1GBe - Dedicated IPMI (AST 2500)
Rear I/O	4* USB 3.0 1* VGA
RAID	Onboard RAID 0, 1, 5, 10 Optional Hardware RAID 0,00,1,10 - no cache Optional Hardware RAID 0,00,1,10,5,6,60 - 4GB cache
Storage	4 x 2.5" SATA OR 2 x 2.5" NVMe hot-swap caddy 4 x M.2 Socket M

OS Compatibility	Minimum - RHEL 7.8+ Recommended - RHEL 9.1+
Management Tools	AMI SCE Redfish
PSU	1300W Dual Redundant (1+1) 200-240V~ 8A MAX. 60-50Hz
Power Connectors	IEC C13/C14
Avg. Power Usage	150W (Idle) 400W (Load) Power draw based on synthetic load, not including add-in cards.
Operating Temperature	10°C - 27°C (50°F - 80°F)
Dimensions	System: 88 x 438 x 720mm (H x W x D) Boxed: 270 x 580 x 990mm (H x W x D)
Chassis Weight	System: 20KG Boxed: 25KG
Rail Kit	Premium or Short
Certifications	UKCA, CE
Export Code	HTS-84715000

ACE 3130-RZ

3U Vertical



CPU	AMD Ryzen 9950X
CPU Frequency	up to 16 Cores @ 5.4GHz [SSE]
Cache	64 MB
Chipset	AM5
RAM	Up to 192GB DDR5 ECC UDIMM
PCIe	Slot 1 - x16 (Physical) / x16 (Electrical) - FHFL D. Wide *Only x8 Electrical if Slot 2 populated Slot 2 - x16 (Physical) / x8 (Electrical) - FHFL
LAN	1* RJ45 10GBe - Marvell 1* RJ45 2.5GBE - Intel 1* RJ45 1GBe - Dedicated IPMI [AST 2500]
Rear I/O	2* USB 3.0 1* VGA
RAID	Onboard RAID 0, 1, 5, 10 Optional Hardware RAID 0,00,1,10 - no cache Optional Hardware RAID 0,00,1,10,5,6,60 - 4GB cache
Storage	4 x 2.5" SATA OR 2 x 2.5" NVMe hot-swap caddy 3 x M.2 Socket M

OS Compatibility	Minimum - RHEL 7.8+ Recommended - RHEL 9.1+
Management Tools	AMI SCE Redfish
PSU	1300W Dual Redundant [1+1] 200-240V~ 8A MAX. 60-50Hz
Power Connectors	IEC C13/C14
Avg. Power Usage	150W [Idle] 400W [Load] Power draw based on average load, not including add-in cards.
Operating Temperature	10°C - 27°C [50°F - 80°F]
Dimensions	System: 132 x 438 x 720mm [H x W x D] Boxed: 270 x 580 x 990mm [H x W x D]
Chassis Weight	System: 25KG Boxed: 30KG
Rail Kit	Premium or Short
Certifications	UKCA, CE
Export Code	HTS-84715000

Specification Comparison

	3120-RZ	3130-RZ
Form Factor	2U	3U
Dimensions (H x W x D)	88 x 438 x 720mm	132 x 438 x 720mm
PCIe Compatibility	2 * Half Height PCIe x16 (physical)	2 * Full Height PCIe x16 (physical)
PSU	1300W	1300W
Clock Speed	5.4GHz	5.4GHz

Benchmarks

32GB. 4.18 Kernel	9950X Stock	9950X Blackcore
mlc -r --latency_matrix (ns) [Lower is better]	92.6	66.2
PCIe Latency - slot1 (ns) [Lower is better]	423	410
C2C Lat - Local CCD (avg. ns) [Lower is better]	43	43
C2C Lat - Remote CCD (avg. ns) [Lower is better]	177	165
All-core Clock-speed (SSE, GHz) [Higher is better]	4.7	5.4
Peak IPC (prime95, SSE) [Higher is better]	4.5	5.2

"Stock" is AMD's default specification with no adjustments. This includes HT on.