

ACE 3100-TS+

32

CPU

CORES

5.1

GHz

CLOCKSPEED

1

TB

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-TS+ series focuses on AMD Threadripper PRO 9975WX and boasts 32 cores overclocked to 5.1GHz. The series features 2U and 3U variations with FPGA support.

Perfect for mid core count workloads, without compromising on PCIe lanes or total RAM capacity.



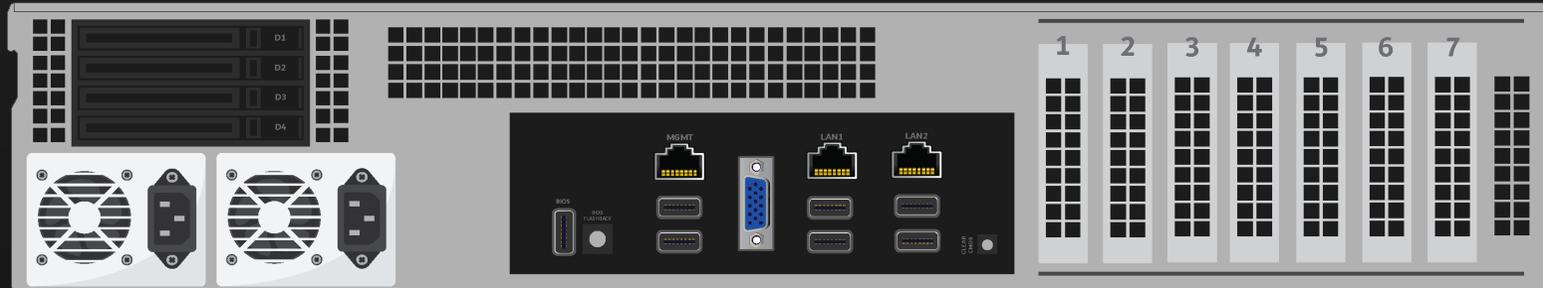
HTS-84715000



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ACE 3122-TS+

2U Vertical

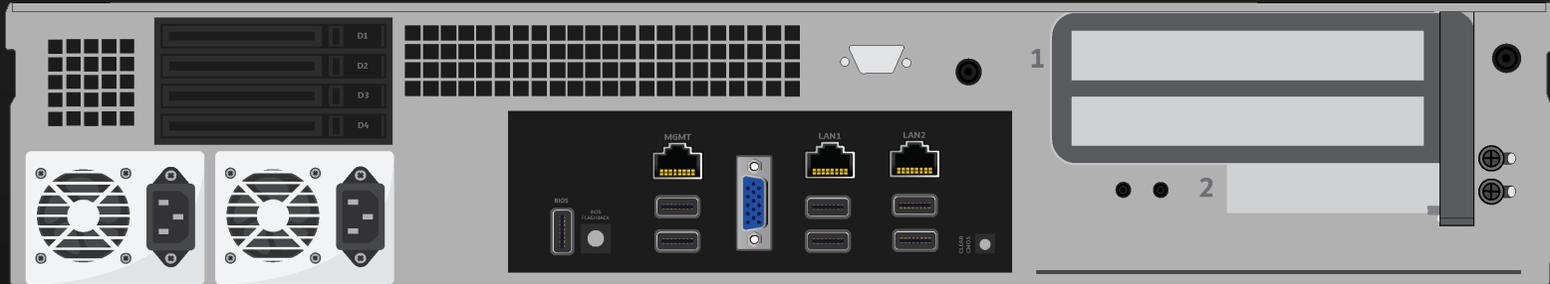


CPU	AMD Threadripper PRO 9975WX
CPU Frequency	up to 32 Cores @ 5.1GHz (SSE)
Cache	128MB L3
Chipset	WRX90
RAM	Up to 1TB of DDR5 ECC RDIMM Up to 768GB Overclocked ECC RDIMM
PCIe	Slot 1 - Physical x16, Electrical x16, HHFL Single Width Slot 2 - Physical x16, Electrical x16, HHFL Single Width Slot 3 - Physical x16, Electrical x16, HHFL Single Width Slot 4 - Physical x16, Electrical x16, HHFL Single Width Slot 5 - Physical x16, Electrical x16, HHFL Single Width Slot 6 - Physical x16, Electrical x8, HHFL Single Width Slot 7 - Physical x16, Electrical x16, HHFL Single Width
LAN	2* RJ45 10GbE - Intel 1* RJ45 1GbE - Dedicated IPMI (AST 2600)
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 8+ Recommended - RHEL 9.1+
Management Tools	AMI SCE Redfish
PSU	2000W Dual Redundant (1+1) 230-240V~ 10A MAX. 60-50Hz
Power Connectors	IEC C13
Avg. Power Usage	500W (Idle) 900W (Load) <small>Power draw based on synthetic load, not including add-in cards.</small>
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 3123-TS+

2U Horizontal

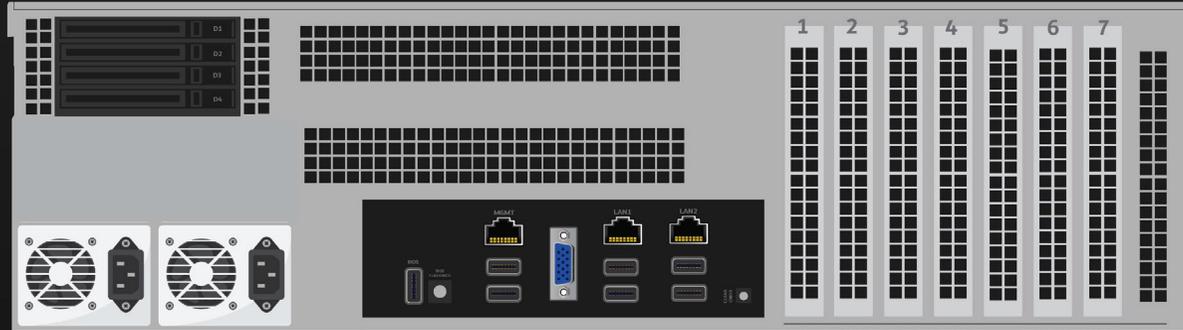


CPU	AMD Threadripper PRO 9975WX
CPU Frequency	up to 32 Cores @ 5.1GHz (SSE)
Cache	128MB L3
Chipset	WRX90
RAM	Up to 1TB of DDR5 ECC RDIMM Up to 768GB Overclocked ECC RDIMM
PCIe	Slot 1 - x16 (Physical) / x16 (Electrical) - FHFL D.Wide Slot 2 - x16 (Physical) / x16 (Electrical) - HHFL
LAN	2* RJ45 10GBe - Intel 1* RJ45 1GBe - Dedicated IPMI (AST 2600)
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 8+ Recommended - RHEL 9.1+
Management Tools	AMI SCE Redfish
PSU	2000W Dual Redundant (1+1) 230-240V~ 10A MAX. 60-50Hz
Power Connectors	IEC C13
Avg. Power Usage	500W (Idle) 900W (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 3132-TS+

3U Vertical



CPU	AMD Threadripper PRO 9975WX
CPU Frequency	up to 32 Cores @ 5.1GHz (SSE)
Cache	128MB L3
Chipset	WRX90
RAM	Up to 1TB of DDR5 ECC RDIMM Up to 768GB Overclocked ECC RDIMM
PCIe	Slot 1 - Physical x16, Electrical x16, FHFL Single Width Slot 2 - Physical x16, Electrical x16, FHFL Single Width Slot 3 - Physical x16, Electrical x16, FHFL Single Width Slot 4 - Physical x16, Electrical x16, FHFL Single Width Slot 5 - Physical x16, Electrical x16, FHFL Single Width Slot 6 - Physical x16, Electrical x8, FHFL Single Width Slot 7 - Physical x16, Electrical x16, FHFL Single Width
LAN	1* RJ45 10GBe - 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 4 x M.2 Socket M

OS Compatibility	Minimum - RHEL 8+ Recommended - RHEL 9.1+
Management Tools	AMI SCE Redfish
PSU	2000W Dual Redundant [1+1] 230-240V~ 10A MAX. 60-50Hz
Power Connectors	IEC C15/C16
Avg. Power Usage	500W (Idle) 900W (Load) Power draw based on synthetic 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

	3122-TS+	3123-TS+	3132-TS+
Form Factor	2U	2U	3U
Dimensions (H x W x D)	88 x 438 x 720mm	88 x 438 x 720mm	132 x 438 x 720mm
PCIe Compatibility	7 * Half Height PCIe x16 (physical)	1 * Full Height PCIe x16 (physical) 1 * Half Height PCIe x16 (physical)	7 * Full Height PCIe x16 (physical)
PSU	2000W	2000W	2000W
Clock Speed	5.1GHz	5.1GHz	5.1GHz

Benchmarks

256GB. 4.18 Kernel	9975X Stock	9975X Blackcore
mlc -r --latency_matrix (ns) [Lower is better]	102.0	82.5
PCIe Latency - slot1 (ns) [Lower is better]	450	445
C2C Lat - Local CCD (avg. ns) [Lower is better]	50	50
C2C Lat - Remote CCD (avg. ns) [Lower is better]	240	240
All-core Clock-speed (SSE, GHz) [Higher is better]	4.5	5.1