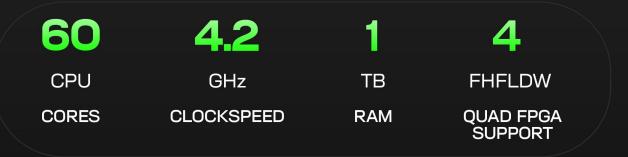
FLEX 3100-SX+





As FPGA usage has increased in popularity for electronic trading the Blackcore FLEX Range of servers aims to bring clients new capabilities related to FPGA use-cases not previously possible in the existing Blackcore range, or traditional server platforms.

Featuring support for 4* full-height, full-length, double-width FPGAs plus an additional full-height single-width card, such as a NIC or PPS breakout card. This includes the power and micro-USB connections needed for all cards. Built on top of an overclocked Intel[®] Xeon-W 3595X for optimal utilisation.



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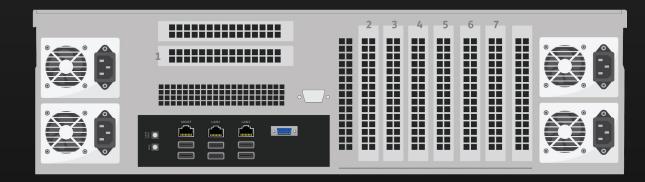


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FLEX 3034-SX+

ЗU



CPU	Intel® Xeon® w9-3595X	
CPU Frequency	60 Cores @ Intel Stock Specification	
Cache	112MB @ up to 2.7GHz	
Chipset	W790	
RAM	Up to 1TB of DDR5 ECC RDIMM Up to 768GB Overclocked ECC RDIMM	
PCle	Slot 1 - Physical x16, Electrical x16, FHFL Double Width Slot 2 - Physical x16, Electrical x16, FHFL Double Width Slot 4 - Physical x16, Electrical x16, FHFL Double Width Slot 6 - Physical x16, Electrical x8, FHFL Single Width Slot 7 - Physical x16, Electrical x16, FHFL Double Width - or - 7 * FHFL Single Width	
LAN	2 x RJ45 Intel [®] X710 - 10Gb Ethernet 1 x RJ45 Dedicated IPMI LAN (AST 2600)	
Rear I/O	1 x VGA 6 x USB Ports	
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	

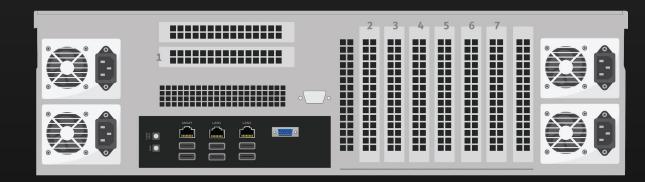
Storage	4 x 2.5" SATA OR 2 x 2.5" NVMe hot-swap caddy 2 x M.2 Socket M	
OS Compatibility	Minimum - RHEL 7.8+ Recommended - RHEL 9.1+	
Management Tools	AMI SCE Redfish	
PSU	2 * 2000W Dual Redundant (1+1) 230-240V~ 10A MAX. 60-50Hz	
Power Connectors	IEC C15/C16	
Avg. Power Usage	500W (Idle) 1500W (Load) 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: 28KG Boxed: 33KG Without Cards	
Rail Kit	Included	
Certifications	UKCA, CE	
Export Code	HTS-84715000	

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FLEX 3134-SX+

ЗU



CPU	Intel® Xeon® w9-3595X	
CPU Frequency	Up to 60 Cores @ 4.2GHz (all-core) SSE	
Cache	112MB @ up to 2.7GHz	
Chipset	W790	
RAM	Up to 1TB of DDR5 ECC RDIMM Up to 768GB Overclocked ECC RDIMM	
PCle	Slot 1 - Physical x16, Electrical x16, FHFL Double Width Slot 2 - Physical x16, Electrical x16, FHFL Double Width Slot 4 - Physical x16, Electrical x16, FHFL Double Width Slot 6 - Physical x16, Electrical x8, FHFL Single Width Slot 7 - Physical x16, Electrical x16, FHFL Double Width - or - 7 * FHFL Single Width	
LAN	2 x RJ45 Intel® X710 - 10Gb Ethernet 1 x RJ45 Dedicated IPMI LAN (AST 2600)	
Rear I/O	1 x VGA 6 x USB Ports	
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	

$4 \times 2.5"$ SATA \textbf{OR} $2 \times 2.5"$ NVMe hot-swap caddy 2 \times M.2 Socket M	
Minimum - RHEL 7.8+ Recommended - RHEL 9.1+	
AMI SCE Redfish	
2 * 2000W Dual Redundant (1+1) 230-240V~ 10A MAX. 60-50Hz	
IEC C15/C16	
500W (Idle) 1500W (Load) Power draw based on synthetic load, not including add- in cards.	
10°C - 27°C (50°F - 80°F)	
System: 132 x 438 x 720mm (H x W x D) Boxed: 270 x 580 x 990mm (H x W x D)	
System: 28KG Boxed: 33KG Without Cards	
Included	
UKCA, CE	
HTS-84715000	

Specification Comparison

	FLEX 3034-SX+	FLEX 3134-SX+
Form Factor	30	ЗU
Dimensions (H x W x D)	132 x 438 x 720mm	132 x 438 x 720mm
PCIe Compatibility	7* x16 (Physical) FHFL	1* x16 (Physical) FHFL 1* x16 (Physical) HHFL
PCIe Orientation	Vertical	Vertical
PSU	2000W	2000W
Clock Speed	Up to 60 Cores @ STOCK	Up to 60 Cores @ 4.2GHz (SSE)

Benchmarks

128GB. 4.18 Kernel	3595X Stock	3595X Blackcore
mlc -rlatency_matrix (ns) [Lower is better]	119.6	92.9
L2->L2 HIT (ns) [Lower is better]	88.6	77.0
PCIe Latency - slot1 (ns) [Lower is better]	507	447
All-core Clock-speed (SSE, GHz) [Higher is better]	2.5	4.2
Peak IPC (prime95, SSE, per thread) [Higher is better]	2.3	4.9

blackcore