

FLEX 3100-SX+

60

CPU
CORES

4.2

GHz
CLOCKSPEED

1

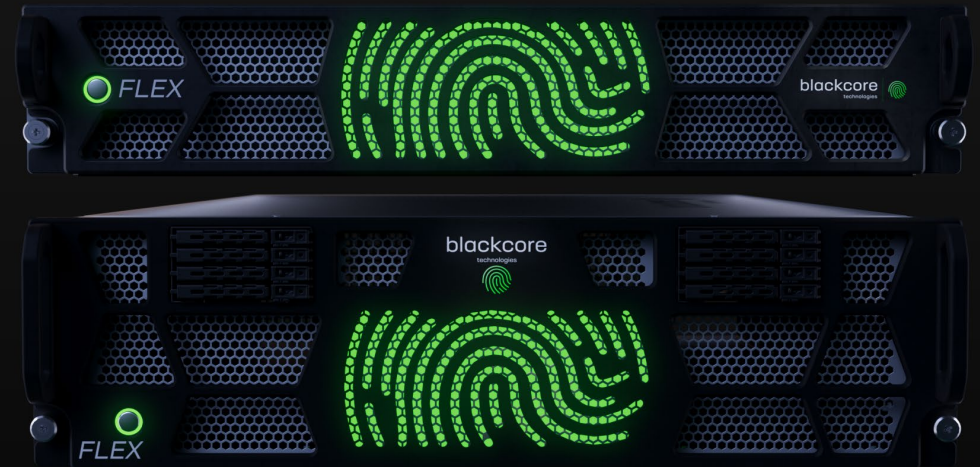
TB
RAM

4

FHFLDW
QUAD FPGA
SUPPORT

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.

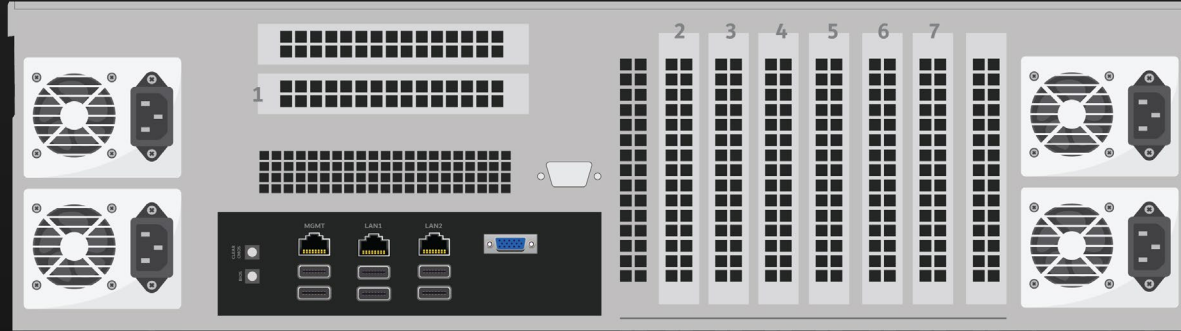


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HTS-84715000 

FLEX 3034-SX+

3U



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
PCIe	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

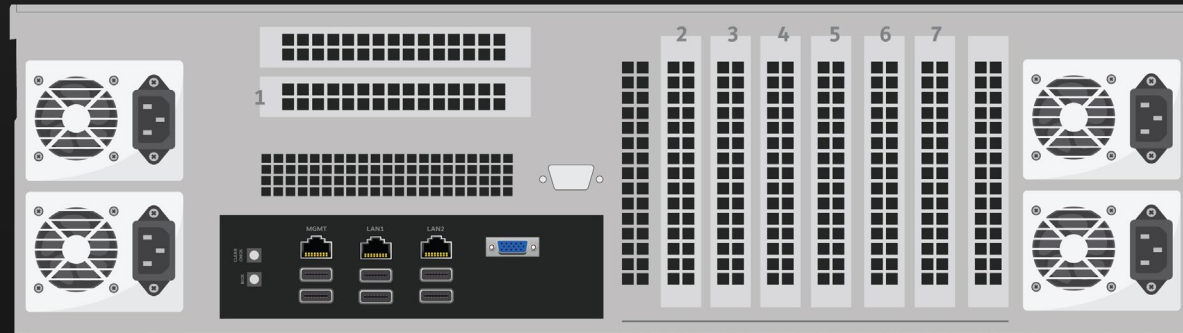
Storage	4 x 2.5" SATA OR 2 x 2.5" NVMe hot-swap caddy 2 x M.2 Socket M
OS Compatibility	Minimum - RHEL 7.8+ Recommended - RHEL 9.1+
Management Tools	AMI SCE Redfish
PSU	2 * 2000W Dual Redundant [1+1] 230-240V~ 10A MAX. 60-50Hz
Power Connectors	IEC C15/C16
Avg. Power Usage	500W [Idle] 1500W [Load] Power 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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"Stock" is Intel's default specification with no adjustments. This includes HT on.

FLEX 3134-SX+

3U



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
PCIe	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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Specification Comparison

	FLEX 3034-SX+	FLEX 3134-SX+
Form Factor	3U	3U
Dimensions (H x W x D)	132 x 438 x 720mm	132 x 438 x 720mm
PCIe Compatibility	6x FHFL Single slot(x16) + 1x FHFL Single slot(x8) OR 4x FHFL Dual Slot(x16) + 1x FHFL Single slot(x8)	6x FHFL Single slot(x16) + 1x FHFL Single slot(x8) OR 4x FHFL Dual Slot(x16) + 1x FHFL Single slot(x8)
PCIe Orientation	1x Horizontal + 6x Vertical	1x Horizontal + 6x Vertical
PSU	2x 2000W (4000W Redundant)	2x 2000W (4000W Redundant)
Clock Speed	Up to 60 Cores @ STOCK	Up to 60 Cores @ 4.2GHz (SSE)

Benchmarks

	3595X Stock	3595X Blackcore
128GB, 4.18 Kernel		
mlc -r --latency_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

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