

# 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.

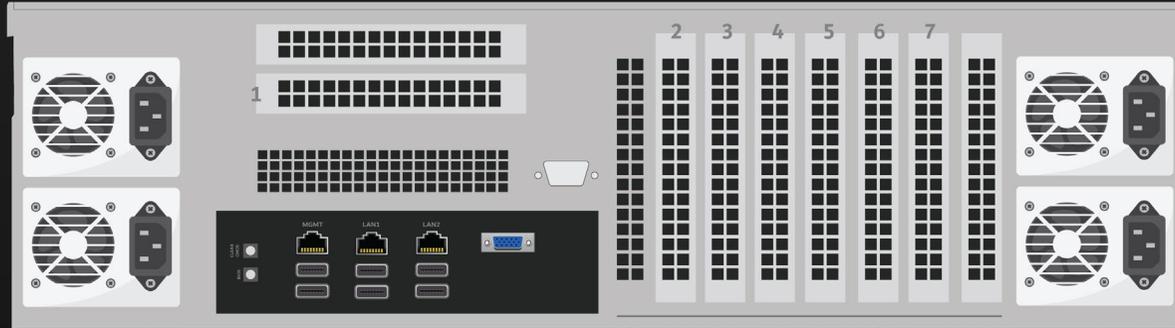


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HTS-84715000 

# FLEX 3034-SX+

3U



<b>CPU</b>	Intel® Xeon® w9-3595X
<b>CPU Frequency</b>	60 Cores @ Intel Stock Specification
<b>Cache</b>	112MB @ up to 2.7GHz
<b>Chipset</b>	W790
<b>RAM</b>	Up to 1TB of DDR5 ECC RDIMM Up to 768GB Overclocked ECC RDIMM
<b>PCIe</b>	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
<b>LAN</b>	2 x RJ45 Intel® X710 - 10Gb Ethernet 1 x RJ45 Dedicated IPMI LAN (AST 2600)
<b>Rear I/O</b>	1 x VGA 6 x USB Ports
<b>RAID</b>	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

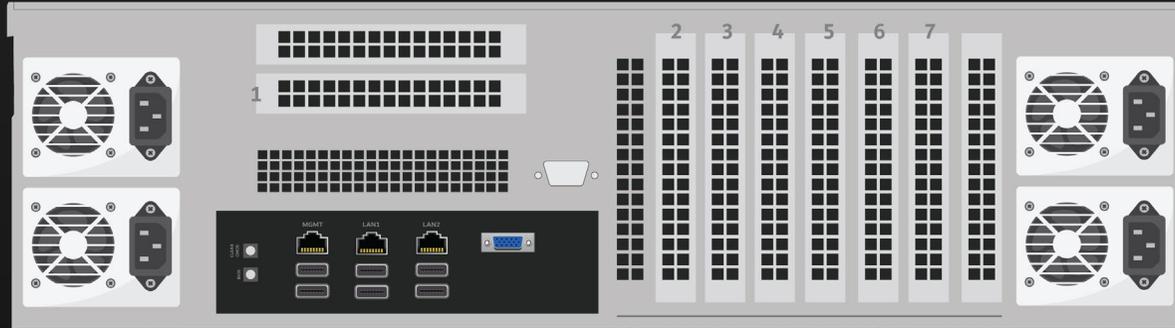
<b>Storage</b>	4 x 2.5" SATA <b>OR</b> 2 x 2.5" NVMe hot-swap caddy 2 x M.2 Socket M
<b>OS Compatibility</b>	Minimum - RHEL 7.8+ Recommended - RHEL 9.1+
<b>Management Tools</b>	AMI SCE Redfish
<b>PSU</b>	2 * 2000W Dual Redundant [1+1] 230-240V~ 10A MAX. 60-50Hz
<b>Power Connectors</b>	IEC C15/C16
<b>Avg. Power Usage</b>	500W [Idle] 1500W [Load] Power draw based on synthetic load, not including add-in cards.
<b>Operating Temperature</b>	10°C - 27°C [50°F - 80°F]
<b>Dimensions</b>	System: 132 x 438 x 720mm [H x W x D] Boxed: 270 x 580 x 990mm [H x W x D]
<b>Chassis Weight</b>	System: 28KG Boxed: 33KG Without Cards
<b>Rail Kit</b>	Included
<b>Certifications</b>	UKCA, CE
<b>Export Code</b>	HTS-84715000

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

# FLEX 3134-SX+

3U



<b>CPU</b>	Intel® Xeon® w9-3595X
<b>CPU Frequency</b>	Up to 60 Cores @ 4.2GHz (all-core) SSE
<b>Cache</b>	112MB @ up to 2.7GHz
<b>Chipset</b>	W790
<b>RAM</b>	Up to 1TB of DDR5 ECC RDIMM Up to 768GB Overclocked ECC RDIMM
<b>PCIe</b>	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
<b>LAN</b>	2 x RJ45 Intel® X710 - 10Gb Ethernet 1 x RJ45 Dedicated IPMI LAN (AST 2600)
<b>Rear I/O</b>	1 x VGA 6 x USB Ports
<b>RAID</b>	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

<b>Storage</b>	4 x 2.5" SATA <b>OR</b> 2 x 2.5" NVMe hot-swap caddy 2 x M.2 Socket M
<b>OS Compatibility</b>	Minimum - RHEL 7.8+ Recommended - RHEL 9.1+
<b>Management Tools</b>	AMI SCE Redfish
<b>PSU</b>	2 * 2000W Dual Redundant [1+1] 230-240V~ 10A MAX. 60-50Hz
<b>Power Connectors</b>	IEC C15/C16
<b>Avg. Power Usage</b>	500W [Idle] 1500W [Load] Power draw based on synthetic load, not including add-in cards.
<b>Operating Temperature</b>	10°C - 27°C (50°F - 80°F)
<b>Dimensions</b>	System: 132 x 438 x 720mm [H x W x D] Boxed: 270 x 580 x 990mm [H x W x D]
<b>Chassis Weight</b>	System: 28KG Boxed: 33KG Without Cards
<b>Rail Kit</b>	Included
<b>Certifications</b>	UKCA, CE
<b>Export Code</b>	HTS-84715000

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# Specification Comparison

	FLEX 3034-SX+	FLEX 3134-SX+
<b>Form Factor</b>	3U	3U
<b>Dimensions</b> (H x W x D)	132 x 438 x 720mm	132 x 438 x 720mm
<b>PCIe Compatibility</b>	7* x16 [Physical] FHFL	1* x16 [Physical] FHFL 1* x16 [Physical] HHFL
<b>PCIe Orientation</b>	Vertical	Vertical
<b>PSU</b>	2000W	2000W
<b>Clock Speed</b>	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