

★ Sangfor HCI Intel-based CPU Models Data Sheet

Model	aServer-X5-1200	aServer-X5-2105	aServer-X5-2205	aServer-X5-2305P	aServer-X5-2305P(12N)	aServer-X5-2205F	aServer-X5-2405	aServer-X5-G2200
CPU	Intel Xeon Gold 6526Y CPU 2.80GHZ 16C/32T 192W	Intel Xeon Silver 4510 CPU 2.4GHZ 12C/24T 150W	Intel Xeon Gold 6526Y CPU 2.80GHZ 16C/32T 192W	Intel Xeon Gold 6530 CPU 2.1GHZ 32C/64T 270W	Intel Xeon Gold 6530 CPU 2.1GHZ 32C/64T 270W	Intel Xeon Gold 6526Y CPU 2.80GHZ 16C/32T 192W	Intel Xeon Gold 6548N CPU 2.8GHZ 32C/64T 250W	Intel Xeon Gold 6526Y CPU 2.80GHZ 16C/32T 192W
CPU Cache	37.5MB	37.5MB	37.5MB	160MB	160MB	37.5MB	60MB	37.5MB
No. of CPU	1	2	2	2	2	2	2	2
Supported Memory	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz
Configured Memory	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4
RAM Slots	16	32	32	32	32	32	32	32
OS Disk	1*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD (occupying data disk slots)
No. of RAID Card	1	1	1	1	1	1	1	1
Support RAID Mode	RAID 0/1/0 & JBOD	RAID 0/1/0 & JBOD	RAID 0/1/0 & JBOD	RAID 0/1/0 & JBOD	RAID 0/1/0 & JBOD	RAID 0/1/0 & JBOD	RAID 0/1/0 & JBOD	RAID 0/1/0 & JBOD
Disk Slots	7 (for data) + 1 (for OS)	12 (for data)+2 (for OS)	12 (for data)+2 (for OS)	12 (for data)+2 (for OS)	12 (all NVMe)+2 (for OS)	24 (all NVMe)+2 (for OS)	12 (for data)+2 (for OS)	10 (for data)+2 (for OS)
Cache Disks (subject to change)	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 480GB/960GB/1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	N/A	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB
Data Disks (subject to change)	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB
Default NIC	4*GE+2*10GE	4*GE+2*10GE	4*GE+2*10GE	4*GE+2*10GE	4*GE+2*10GE	4*GE+2*10GE	4*GE+2*10GE	4*GE+2*10GE
Optional NIC	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE
USB	3	4	4	4	4	4	4	4
Dimension (Support 19inch Standard Form Factor Rack)	2U 800mm (L) × 435mm (W) × 87mm (H) or 797mm (L) × 447mm (W) × 87mm (H)	2U 800mm (L) × 435mm (W) × 87mm (H) or 823mm (L) × 446mm (W) × 87mm (H) or 797mm (L) × 447mm (W) × 87mm (H)	2U 800mm (L) × 435mm (W) × 87mm (H) or 798mm (L) × 447mm (W) × 86mm (H) or 797mm (L) × 447mm (W) × 87mm (H)	2U 800mm (L) × 435mm (W) × 87mm (H) or 798mm (L) × 447mm (W) × 86mm (H) or 797mm (L) × 447mm (W) × 87mm (H)	2U 800mm (L) × 435mm (W) × 87mm (H) or 798mm (L) × 447mm (W) × 86mm (H) or 797mm (L) × 447mm (W) × 87mm (H)	2U 800mm (L) × 435mm (W) × 87mm (H) or 798mm (L) × 447mm (W) × 86mm (H) or 797mm (L) × 447mm (W) × 87mm (H)	2U 770mm (L) × 446mm (W) × 87mm (H) or 800mm (L) × 435mm (W) × 87mm (H) or 798mm (L) × 447mm (W) × 86mm (H) or 797mm (L) × 447mm (W) × 87mm (H)	2U 770mm (L) × 446mm (W) × 87mm (H) or 797mm (L) × 447mm (W) × 87mm (H)
Gross Weight	47kg	41kg	41kg	41kg	41kg	38kg	41kg	41kg
Net Weight	37kg	32kg	32kg	32kg	32kg	35kg	32kg	32kg
Total PCIe Slots	3	4	4	4	4	3	4	5
Available PCIe Slots	1	2	2	2	3	1	2	3
Redundant Power Specs	800W/1300W/1600W[100-240VAC][240VDC]	800W/900W/1300W/1600W[100-240VAC][240VDC]	1500W/2000W[100-240VAC][240VDC]	2000W[100-240VAC][240VDC]	1600W/1500W[100-240VAC][240VDC]	≥1600W[100-240VAC][240VDC]	2000W[100-240VAC][240VDC]	2400W[100-240VAC][240VDC]
Power Supply Hot Swap	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Working Power	Typical Power: 650W or 900W Max Power: 800W or 1300W or 1600W	Typical Power: 760W or 1000W Max Power: 800W or 900W or 1300 or 1600W	Typical Power: 797W Max Power: 800W or 2000W	Typical Power: 1016W Max Power: 2000W	Typical Power: 850W Max Power: 1600W or 1500W or 1300W	Typical Power: 1395W Max Power: 1600W or 2000W	Typical Power: 976W Max Power: 2000W	Typical Power: 1850W Max Power: 2400W
VGA	2	1	1	1	1	1	1	1
Fans	4 (Hot-swappable)	4 (Hot-swappable)	4 (Hot-swappable)	4 (Hot-swappable)	4 (Hot-swappable)	4 (Hot-swappable)	4 (Hot-swappable)	4 (Hot-swappable)
USB	4 (USB 2.0 & above)	4 (USB 2.0 & above)	4 (USB 2.0 & above)	4 (USB 2.0 & above)	4 (USB 2.0 & above)	4 (USB 2.0 & above)	4 (USB 2.0 & above)	4 (USB 2.0 & above)
IPMI (1GbE)	1	1	1	1	1	1	1	1
Working Temperature	10-35 C	10-35 C	10-35 C	10-35 C	10-35 C	10-35 C	10-35 C	10-35 C
Working Humidity	35%-80%RH	35%-80%RH	35%-80%RH	35%-80%RH	35%-80%RH	35%-80%RH	35%-80%RH	35%-80%RH

★ Sangfor HCI AMD-based CPU Models Data Sheet

Model	aServer-Z4-2405	aServer-Z4-2605
CPU	AMD Genoa 9354 (32C, 3.25GHz)	AMD Genoa 9554 (64C, 3.1GHz)
CPU Cache	256MB	256MB
No. of CPU	2	2
Supported Memory	32GB or 64GB DDR5 5600Mhz	32GB or 64GB DDR5 5600Mhz
Configured Memory	64GB*8	64GB*8
RAM Slots	24	24
OS Disk	2*480GB 2.5" SATA SSD	2*480GB 2.5" SATA SSD
No. of RAID Card	1	1
Support RAID Mode	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD
Disk Slots	12 (for data)+2 (for OS)	12 (for data)+2 (for OS)
Cache Disks (subject to change)	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 480GB/960GB/1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB
Data Disks (subject to change)	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB/16TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB 2.5" U.2 NVMe SSD: 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB
Default NIC	4*GE+2*10GE	4*GE+2*10GE
Optional NIC	1GE, 10GE, 25GE	1GE, 10GE, 25GE
USB	4	4
Dimension (Support 19inch Standard Form Factor Rack)	2U 823 mm (L) × 446 mm (W, without rack ears) × 87 mm (H) 823 mm (L) × 482 mm (W, with rack ears) × 87 mm (H)	2U 823 mm (L) × 446 mm (W, without rack ears) × 87 mm (H) 823 mm (L) × 482 mm (W, with rack ears) × 87 mm (H)
Gross Weight	38kg	38kg
Net Weight	35kg	35kg
Total PCIe Slots	6	6
Available PCIe Slots	2	2
Power Specs	2000W (Redundant, Platinum)	2000W (Redundant, Platinum)
Power Supply Hot Swap	Yes	Yes
Working Power	Typical Power: 950W Max Power: 2000W	Typical Power: 1365W Max Power: 2000W
Fans	4 (Hot-swappable)	4 (Hot-swappable)
VGA	2	2
Serial Port	1	1
IPMI (1GbE)	1	1
Working Temperature	10-35 °C	10-35 °C
Working Humidity	35%-80%RH	35%-80%RH

★ Sangfor HCI Datasheet - Software

Sangfor can also provide a software-only HCI solution compatible with most of the commodity servers commercially available on the market.

License (Per physical CPU)	aSV (Server Virtualization)	Server Virtualization, HA, DRS, Automated Hot Add, Backup, Clone, Sub Administrator, etc.
License (Per physical CPU)	aNet (Network Virtualization)	Network virtualization, Distributed Firewall, Drawable Topology, Visualized Network, aSwitch, aRouter, etc. (HCI Supports IPv4 for all features and IPv6 in VMs, vRouter and vSwitch)
License (Per physical CPU)	aSAN (Storage Virtualization)	2-3 Copies, SSD Read & Write Acceleration, Storage Tier-ing, Data Locality, etc.

* NFV components on HCI may employ IPSec VPN technologies using encryption algorithms.

- IPSec Protocol: AH, ESP
- D-H Group: MODP768 Group(1), MODP1024 Group(2), MODP1536 Group(5)
- IPSec Authentication Algorithm: MD5, SHA-1, SHA-2, SM3
- IPSec Encryption Algorithm: DES, 3DES, AES-128, AES-256, SANGFOR_DES, SCB2, SM4

★ CERTIFIED BY CCC, FCC and CE.

