

★ Sangfor HCI 3rd Generation CPU Models Data Sheet - Appliance Based

Model	aServer-3000	aServer-3100	aServer-3205	aServer-3305	aServer-3405	aServer-3305F	aServer-3405(648)	aServer-3405(860)	aServer-J-100Z
CPU	Intel 4310 2.1GHz 12C/24T 120W	Intel 6326 2.9GHz 16C/32T 185W	Intel 4314 2.4GHz 16C/32T 135W	Intel 6326 2.9GHz 16C/32T 185W	Intel 5318Y 2.1GHz 24C/48T 165W	Intel 6326 2.90GHz 16C/32T 185W	Intel 6348 2.60GHz 28C/56T 235W	Intel 8360Y 2.40GHz 36C/72T 250W	Intel N5105 2.0GHz 4C/4T 10W
CPU Cache	18MB	24MB	24MB	24MB	36MB	24MB	42MB	54MB	4MB
No. of CPU	1	1	2	2	2	2	2	2	1
Supported Memory	32GB or 64GB DDR4 3200MHz	32GB or 64GB DDR4 3200MHz	32GB or 64GB DDR4 3200MHz	32GB or 64GB DDR4 3200MHz	32GB or 64GB DDR4 3200MHz	32GB or 64GB DDR4 3200MHz	32GB or 64GB DDR4 3200MHz	32GB or 64GB DDR4 3200MHz	16GB
Configured Memory	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4	32GB*4	16GB*1
RAM Slots	32 (only 16 are available)	32 (only 16 are available)	32	32	32	32	32	32	1
OS Disk	1*480GB 2.5" SATA SSD Occupy front disk slot	1*480GB 2.5" SATA SSD Occupy front disk slot	2*240GB 2.5" SATA SSD	2*240GB 2.5" SATA SSD	2*240GB 2.5" SATA SSD	2*240GB 2.5" SATA SSD	2*240GB 2.5" SATA SSD	2*240GB 2.5" SATA SSD	64GB (onboard)
No. of RAID Card	1	1	1	1	1	1	1	1	N/A
Support RAID Mode	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	N/A
Disk Slots	7 (for data) + 1 (for OS)	7 (for data) + 1 (for OS)	12 (for data)+2 (for OS)	12 (for data)+2 (for OS)	12 (for data)+2 (for OS)	24 (U.2 NVMe) + 2 (SATA for OS)	12 (for data)+2 (for OS)	12 (for data)+2 (for OS)	N/A
Cache Disks	Options 2.5" SATA SSD: 480GB/960GB/ 1.92TB/3.84TB/7.68TB	Options 2.5" SATA SSD: 480GB/960GB/ 1.92TB/3.84TB/7.68TB	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: 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: 480GB/960GB/ 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: 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: 480GB/960GB/ 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	N/A
Data Disks	Options 2.5" SAS HDD: 1.2TB/1.8TB/2.4TB 3.5" SAS HDD: 4TB 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 1.2TB/1.8TB/2.4TB 3.5" SAS HDD: 4TB 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 1.2TB/1.8TB/2.4TB 3.5" SAS HDD: 4TB 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 1.2TB/1.8TB/2.4TB 3.5" SAS HDD: 4TB 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 1.2TB/1.8TB/2.4TB 3.5" SAS HDD: 4TB 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB	Options: 2.5" U.2 NVMe SSD: 480GB/960GB/ 1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 1.2TB/1.8TB/2.4TB 3.5" SAS HDD: 4TB 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 1.2TB/1.8TB/2.4TB 3.5" SAS HDD: 4TB 3.5" SATA HDD: 4TB/6TB/8TB/10TB/12TB 2.5" SATA SSD: 480GB/960GB/1.92TB/3.84TB/7.68TB	N/A
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	1*GE
Optional NIC (SFP+)	1GE (electrical), 10GE, 25GE	1GE (electrical), 10GE, 25GE	1GE (electrical), 10GE, 25GE	1GE (electrical), 10GE, 25GE	1GE (electrical), 10GE, 25GE	1GE (electrical), 10GE, 25GE	1GE (electrical), 10GE, 25GE	1GE (electrical), 10GE, 25GE	N/A
USB 3.0	4	4	4	4	4	4	4	4	4
Dimension (Support 19inch Standard Form Factor Rack)	2U 86.1mm(H) *447mm(W) *790mm(L)	2U 86.1mm(H) *447mm(W) *790mm(L)	2U 86.1mm(H) *447mm(W) *790mm(L)	2U 86.1mm(H) *447mm(W) *790mm(L)	2U 86.1mm(H) *447mm(W) *790mm(L)	2U 86.1mm(H) *447mm(W) *790mm(L)	2U 87mm(H) *478.8mm(W) *811.7mm(L)	2U 780*435*87mm or 790*447*86.1mm(L*W*H)	Not support standard rack 178mm(L)*110mm(W)*28mm(H)
Gross Weight	28kg	28kg	28kg	39kg	39kg	37.5kg	29/37.5kg	29/37.5kg	-
Net Weight	23kg	23kg	23kg	32kg	32kg	28kg	24/28kg	24/28kg	0.93KG
Total PCIe Slots	3	3	3	3	3	3	3	3	N/A
Available PCIe Slots	1	1	2	2	2	2	2	2	N/A
Redundant Power Supply	2	2	2	2	2	2	2	2	1 (non-redundant)
Power Supply Hot Swap	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Working Power	Typical Power: 354W Max Power: 900W	Typical Power: 354W Max Power: 900W	Typical Power: 900W or 546W or 690W Max Power: 1300W or 900W or 800W	Typical Power: 900W or 798W or 673W Max Power: 1300W or 900W	Typical Power: 900W or 624W or 758W Max Power: 1300W or 800W	Typical Power: 900W Max Power: 1600W or 1500W	Typical Power: 900W or 691W Max Power: 1500W or 1600W or 1300W	Typical Power: 1000W or 791W Max Power: 1500W or 1600W	Typical Power: 17W Max Power: 60W
VGA	1	1	1	1	1	2	1	1	No, with 2*HDMI +1*DP
IPMI (1GbE)	1	1	1	1	1	1	1	1	N/A

★ Sangfor HCI 5th Generation CPU Models Data Sheet

Model	aServer-X5-2205	aServer-X5-2305P	aServer-X5-2405	aServer-X5-G2200
CPU	Intel Xeon Gold 6526Y CPU 2.80GHZ 16C/32T 192W	Intel Xeon Gold 6530 CPU 2.1GHZ 32C/64T 270W	Intel Xeon Gold 6548N CPU 2.8GHZ 32C/64T 250W	Intel Xeon Gold 6526Y CPU 2.80GHZ 16C/32T 192W
CPU Cache	37.5MB	160MB	60MB	37.5MB
No. of CPU	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
Configured Memory	32GB*4	32GB*4	32GB*4	32GB*4
RAM Slots	32	32	32	32
OS Disk	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
Support RAID Mode	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD	RAID 0/1/10 & JBOD
Disk Slots	12 (for data)+2 (for OS)	12 (for data)+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: 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: 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: 480GB/960GB/1.6TB/1.92TB/3.2TB/3.84TB/7.68TB
Data Disks (subject to change)	Options 2.5" SAS HDD: 2.4TB 3.5" SAS HDD: 4TB 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: 480GB/960GB/1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 2.4TB 3.5" SAS HDD: 4TB 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: 480GB/960GB/1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 2.4TB 3.5" SAS HDD: 4TB 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: 480GB/960GB/1.6TB/1.92TB/3.2TB/3.84TB/7.68TB	Options 2.5" SAS HDD: 2.4TB 3.5" SAS HDD: 4TB 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: 480GB/960GB/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
Optional NIC	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE	1GE, 10GE, 25GE
USB 3.0	4	4	4	4
Dimension (Support 19inch Standard Form Factor Rack)	2U 800mm*435mm*87mm or 798mm*447mm*86mm or 797mm*447mm*87mm	2U 800mm*435mm*87mm or 798mm*447mm*86mm or 797mm*447mm*87mm	2U 800mm*435mm*87mm or 798mm*447mm*86mm or 797mm*447mm*87mm	2U 770mm*446mm*87mm or 797mm*447mm*87.0mm
Gross Weight	41kg	41kg	41kg	41kg
Net Weight	32kg	32kg	32kg	32kg
Total PCIe Slots	4	4	4	5
Available PCIe Slots	2	2	2	3
Redundant Power Specs	1500W/2000W[100-240VAC][240VDC]	2000W[100-240VAC][240VDC]	2000W[100-240VAC][240VDC]	2400W[100-240VAC][240VDC]
Power Supply Hot Swap	Yes	Yes	Yes	Yes
Working Power	Typical Power: 797W Max Power: 1500W or 2000W	Typical Power: 1016W Max Power: 2000W	Typical Power: 976W Max Power: 2000W	Typical Power: 1850W Max Power: 2400W
VGA	1	1	1	1
IPMI (1GbE)	1	1	1	1
Working Temperature	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

★ 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.
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.

