



## ★ Sangfor HCI Data Sheet - Appliance Based

| Model                                                   | aServer-1600                                     | aServer-1800                                                                                                                 | aServer-2100                                                                                                                 | aServer-2105                                                                                                                 | aServer-2205                                                                                                                 | aServer-2305                                                                                                                 | Configuration Remark                                                                                                      |
|---------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Height                                                  | 2U                                               | 2U                                                                                                                           | 2U                                                                                                                           | 2U                                                                                                                           | 2U                                                                                                                           | 2U                                                                                                                           | CPU is not expandable<br>(C stands for Core and T stands for Thread)                                                      |
| CPU Model                                               | Intel Gold 6208U                                 | Intel® Xeon® Silver 4210R                                                                                                    | Intel® Xeon® Silver 4210R                                                                                                    | Intel® Xeon® Silver 4210R                                                                                                    | Intel® Xeon® Gold 6226R                                                                                                      | Intel® Xeon® Gold 5220R                                                                                                      |                                                                                                                           |
| No. of CPU                                              | 1                                                | 1                                                                                                                            | 2                                                                                                                            | 2                                                                                                                            | 2                                                                                                                            | 2                                                                                                                            |                                                                                                                           |
| CPU Specs                                               | 16C32T 2.9GHZ                                    | 10C20T 2.4GHZ                                                                                                                | 10C20T 2.4GHZ                                                                                                                | 10C20T 2.4GHZ                                                                                                                | 16C32T 2.9GHZ                                                                                                                | 24C48T 2.2GHZ                                                                                                                |                                                                                                                           |
| Standard Memory                                         | 64GB (2*32)                                      | 64GB (2*32)                                                                                                                  | 128GB (4*32)                                                                                                                 | 128GB (4*32)                                                                                                                 | 128GB (4*32)                                                                                                                 | 128GB (4*32)                                                                                                                 | Expandable with 32GB memory stripes                                                                                       |
| Memory Slot                                             | 12                                               | 24                                                                                                                           | 24                                                                                                                           | 24                                                                                                                           | 24                                                                                                                           | 24                                                                                                                           |                                                                                                                           |
| Memory Frequency                                        | DDR4 2933MHz                                     | DDR4 2933MHz                                                                                                                 | DDR4 2933MHz                                                                                                                 | DDR4 2933MHz                                                                                                                 | DDR4 2933MHz                                                                                                                 | DDR4 2933MHz                                                                                                                 |                                                                                                                           |
| Max. Memory                                             | 768GB                                            | 384GB                                                                                                                        | 768GB                                                                                                                        | 768GB                                                                                                                        | 768GB                                                                                                                        | 768GB                                                                                                                        |                                                                                                                           |
| Disk Slot                                               | 8                                                | 8                                                                                                                            | 8                                                                                                                            | 12                                                                                                                           | 12                                                                                                                           | 12                                                                                                                           |                                                                                                                           |
| OS Disk (By default)                                    | 1*240GB SSD                                      | 1*240GB SSD                                                                                                                  | 1*240GB SSD                                                                                                                  | 2*240GB SSD                                                                                                                  | 2*240GB SSD                                                                                                                  | 2*240GB SSD                                                                                                                  | OS disks are installed on the dual-slot on the backplane of the server, all models are configured with RAID 1 except 2100 |
| Cache Disk (SSD, mandatory for aSAN cache and tier-ing) | Optional                                         | Options:<br>240GB SSD Intel S4600<br>480GB SSD Intel S4600<br>960GB SSD Intel S4600<br>1.9TB SSD Intel S4600                 | Options:<br>240GB SSD Intel S4600<br>480GB SSD Intel S4600<br>960GB SSD Intel S4600<br>1.9TB SSD Intel S4600                 | Options:<br>240GB SSD Intel S4600<br>480GB SSD Intel S4600<br>960GB SSD Intel S4600<br>1.9TB SSD Intel S4600                 | Options:<br>240GB SSD Intel S4600<br>480GB SSD Intel S4600<br>960GB SSD Intel S4600<br>1.9TB SSD Intel S4600                 | Options:<br>240GB SSD Intel S4600<br>480GB SSD Intel S4600<br>960GB SSD Intel S4600<br>1.9TB SSD Intel S4600                 | Optional.<br>Need to purchase separately                                                                                  |
| Data Disk                                               | Optional                                         | Options:<br>2TB SATA HDD (Enterprise)<br>4TB SATA HDD (Enterprise)<br>6TB SATA HDD (Enterprise)<br>8TB SATA HDD (Enterprise) | Options:<br>2TB SATA HDD (Enterprise)<br>4TB SATA HDD (Enterprise)<br>6TB SATA HDD (Enterprise)<br>8TB SATA HDD (Enterprise) | Options:<br>2TB SATA HDD (Enterprise)<br>4TB SATA HDD (Enterprise)<br>6TB SATA HDD (Enterprise)<br>8TB SATA HDD (Enterprise) | Options:<br>2TB SATA HDD (Enterprise)<br>4TB SATA HDD (Enterprise)<br>6TB SATA HDD (Enterprise)<br>8TB SATA HDD (Enterprise) | Options:<br>2TB SATA HDD (Enterprise)<br>4TB SATA HDD (Enterprise)<br>6TB SATA HDD (Enterprise)<br>8TB SATA HDD (Enterprise) | Optional.<br>Need to purchase separately                                                                                  |
| Disk Slot Size                                          | 3.5/2.5 inch                                     | 3.5/2.5 inch                                                                                                                 | 3.5/2.5 inch                                                                                                                 | 3.5/2.5 inch                                                                                                                 | 3.5/2.5 inch                                                                                                                 | 3.5/2.5 inch                                                                                                                 | Intel X722: 1GE Port<br>Intel X720-F2: 10G SFP+Port                                                                       |
| NIC Ports (Customizable)                                | 4*GE electrical<br>+ 2*10GE optical              | 6*GE electrical                                                                                                              | 6*GE electrical<br>+ 2*10GE optical                                                                                          | 6*GE electrical<br>+ 2*10GE optical                                                                                          | 6*GE electrical<br>+ 2*10GE optical                                                                                          | 6*GE electrical<br>+ 2*10GE optical                                                                                          |                                                                                                                           |
| Working Power                                           | 468W                                             | 468W                                                                                                                         | 468W                                                                                                                         | 518W                                                                                                                         | 618W                                                                                                                         | 618W                                                                                                                         |                                                                                                                           |
| Max. Power                                              | 800W                                             | 800W                                                                                                                         | 800W                                                                                                                         | 800W                                                                                                                         | 800W                                                                                                                         | 800W                                                                                                                         |                                                                                                                           |
| Dimension (mm)                                          | 800*448*90                                       | 800*448*90                                                                                                                   | 800*448*90                                                                                                                   | 800*448*90                                                                                                                   | 800*448*90                                                                                                                   | 800*448*90                                                                                                                   |                                                                                                                           |
| Gross Weight (kg)                                       | 42                                               | 42                                                                                                                           | 42                                                                                                                           | 45                                                                                                                           | 45                                                                                                                           | 45                                                                                                                           |                                                                                                                           |
| Net Weight (kg)                                         | 35                                               | 35                                                                                                                           | 35                                                                                                                           | 37                                                                                                                           | 37                                                                                                                           | 37                                                                                                                           |                                                                                                                           |
| Power supply                                            | 1+1 Platinum<br>800W<br>[100-240VAC]<br>[240VDC] | 1+1 Platinum<br>800W<br>[100-240VAC]<br>[240VDC]                                                                             | 1+1 Platinum<br>800W<br>[100-240VAC]<br>[240VDC]                                                                             | 1+1 Platinum<br>800W<br>[100-240VAC]<br>[240VDC]                                                                             | 1+1 Platinum<br>800W<br>[100-240VAC]<br>[240VDC]                                                                             | 1+1 Platinum<br>800W<br>[100-240VAC]<br>[240VDC]                                                                             |                                                                                                                           |
| Total PCI-e Slots                                       | 3                                                | 5                                                                                                                            | 5                                                                                                                            | 5                                                                                                                            | 5                                                                                                                            | 5                                                                                                                            |                                                                                                                           |
| Available PCI-e Slots                                   | 1                                                | 1                                                                                                                            | 1                                                                                                                            | 1                                                                                                                            | 1                                                                                                                            | 1                                                                                                                            | PCI-E slot is used to expand NIC, HBA card or PCI-e SSD                                                                   |
| Raid Card                                               | LSI SAS 3008-8i<br>Or PM8222                     | LSI SAS 3008-8i<br>Or PM8222                                                                                                 | LSI SAS 3008-8i<br>Or PM8222                                                                                                 | LSI SAS 3008-8i<br>Or PM8222                                                                                                 | LSI SAS 3008-8i<br>Or PM8222                                                                                                 | LSI SAS 3008-8i<br>Or PM8222                                                                                                 |                                                                                                                           |



| Model                     | aServer-1600     | aServer-1800     | aServer-2100     | aServer-2105     | aServer-2205     | aServer-2305     | Configuration Remark |
|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
| Raid Mode                 | 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 |                      |
| Cache on RAID Card        | No cache         | No cache         | No cache         | No cache         | No cache         | No cache         |                      |
| COM                       | 1                | 1                | 1                | 1                | 1                | 1                |                      |
| USB 2.0                   | 2                | 2                | 2                | 2                | 2                | 2                |                      |
| USB 3.0                   | 2                | 2                | 2                | 2                | 2                | 2                |                      |
| VGA                       | 1                | 1                | 1                | 1                | 1                | 1                |                      |
| Working Temperature Range | 10-35°C          | 10-35°C          | 10-35°C          | 10-35°C          | 10-35°C          | 10-35°C          |                      |
| Working Humidity Range    | 35%-80%RH        | 35%-80%RH        | 35%-80%RH        | 35%-80%RH        | 35%-80%RH        | 35%-80%RH        |                      |

### ★ Sangfor HCI Data Sheet - Software Based

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, CE and KC.

