



**ARS2100 is a 2U rack mount server. ARS2100 provides expansion slots for storage and acceleration cards**

### ARS2100 Components

**ARS2100 Chassis** – Supporting Intel 4th Generation Xeon processor with Dual socket motherboards, this versatile chassis shares power, cooling, network and acceleration modules. Its 2U form factor allow up to 40/20 chassis1 per 42U rack.

**Server Board** – Supported processors are listed in Processor Subsystem sections; they are suitable for varied applications including HPC, HCI, Hadoop, Openstack/hosted desktops and mini HPC clusters

**Storage Bay** – It can holds up to 12 x 2.5” or 3.5” SATA/SAS/SSD disk. Optional RAID support is available. ARS2100 is also supports NVMe storage for applications requiring fast data accesses.

**Acceleration Card** – Hardware acceleration cards supporting GPU or FPGA to offload compute intensive tasks to hardware. Acceleration cards functionality can be shared with multiple VM running on host Operating System. ARS2100 Model support upto 3GPU.

Specifications	
Form factor	<ul style="list-style-type: none"> <li>• 2U 19" rack mount</li> <li>• Dimensions (WxDxH) – 438 x 658 x 87 /174(mm)</li> </ul>
Processor subsystem	<ul style="list-style-type: none"> <li>• Intel Processors               <ul style="list-style-type: none"> <li>○ 2 x Intel® Xeon® 4th Generation processors upto 270W TDP</li> <li>○ 32 DIMM slots</li> <li>○ Support DDR4 2133/2400/2666/2933/3200MHz RDIMM/LR DIMM, for up to 64GB per DIMM.</li> <li>○ Intel® C621A chipset</li> </ul> </li> </ul>
GPU	<ul style="list-style-type: none"> <li>• 3 x NVIDIA GPU supported</li> </ul>
Storage Type	<ul style="list-style-type: none"> <li>• SATA 3.0</li> <li>• SAS HDD</li> <li>• SATA SSD</li> <li>• SAS SSD</li> <li>• NVMe SSD</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Trusted Platform Module 2.0 v2and v3</li> <li>• Silicon-based Hardware Root of Trust</li> <li>• Cryptographically signed image upload</li> <li>• Signed firmware updates</li> <li>• Secure alerting</li> <li>• Automatic BIOS recovery</li> <li>• Rapid OS recovery</li> <li>• System Secure Erase</li> <li>• System Lockdown</li> </ul>
Front Control	<ul style="list-style-type: none"> <li>• Power button</li> <li>• System reset button</li> </ul>
Front I/O Ports	<ul style="list-style-type: none"> <li>• 2 x USB 3.0</li> </ul>
Visual Indicators	<ul style="list-style-type: none"> <li>• Power</li> <li>• UID</li> <li>• LAN activity</li> <li>• HDD status</li> </ul>
Rear Panel	<ul style="list-style-type: none"> <li>• 2 x RJ45 Network interfaces (10/100/1000 Base-T)</li> <li>• 1 x IPMI interface (10/100/1000 Base-T)</li> <li>• 1 x VGA</li> </ul>
Expansion slots	<ul style="list-style-type: none"> <li>• 6 x FHHL PCIe 4.0 x16,</li> <li>• 2x Low Profile Gen4 x8 slots (It will be used for system with Ethernet Interface, Infiniband Adapter cards, SAS Interface support)</li> <li>• 1 x OCP 3.0 Gen4 x16 mezzanine slot</li> <li>• 1 x OCP 2.0 Gen3 x8 mezzanine slot</li> </ul>

Drive bays options	<ul style="list-style-type: none"> <li>8 x 3.5" SAS/SATA/SSD or 8 x 2.5" SATA/SAS/SSD disks or 12 x25"/3.5"ATA/SAS/SSD disks or 24 x25"/3.5"ATA/SAS/SSD disks (configured at purchase)</li> <li>2 x 2.5" SATA/SAS hot-swappable HDD/SSD bays on rear side</li> </ul>
Power	<ul style="list-style-type: none"> <li>2 (1+1) CRPS (80+ Platinum)</li> <li>2U support upto 2000W</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>80 x 25/38mm internal fans</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Operating: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating: -40°C to 70°C (-40°F to 158°F)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>15Kg</li> </ul>
Operating System /Hypervisor Compliance	<ul style="list-style-type: none"> <li>Microsoft Windows – Server 2012 R2, Server 2016, Server 2019, Server 2022</li> <li>Linux – RHEL/CentOS 6.8/7.4, SUSE Enterprise Linux Server 11/12SP3, Ubuntu 16.04/18.04</li> <li>KVM, VMWare, Hyper-V and Oracle virtualization</li> </ul>
Server Management	<ul style="list-style-type: none"> <li>BMC web based GUI interface to manage and monitor the sever resources.</li> <li>HTML based management framework allows to manage servers in physical, local and remote environments while operating in-band</li> <li>BMC network ports to manage the server out-of-band without a systems management software agent.</li> <li>BMC software plugins to monitor and analysis hardware performance parameters, alerting, telemetry streaming features etc.</li> <li>HTML based monitoring, driver updates &amp; configuration, power monitoring &amp; capping, RAID management, Out-of-band hardware &amp; firmware inventory</li> <li>Zero-touch auto configuration to auto deploy a baseline server configuration profile</li> <li>Power Management parameter database storage for 5days.</li> <li>Dedicated remote management port and support IPv4 and IPv6.</li> <li>System health and systems components (CPU, RAM, HD, FANS, Power Supplies, HBA's, NICs) health monitoring support.</li> <li>System hardware configuration and license restore and archiver support.</li> <li>PXE based automated hardware configuration and Operating System deployment to multiple servers</li> </ul>

	<ul style="list-style-type: none"><li>• Virtual IO management / stateless computing</li><li>• BMC software support for integration with 3rd party management tools such as vCentre, System Center, BMC, Ansible and support for Redfish API</li></ul>
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