



ARS2100-G493 is a 4U rack mount server. ARS2100-G493 provides expansion slots for storage and acceleration cards

ARS2100-G493 Components

ARS2100-G493 Chassis – Supporting Intel 4th Generation Xeon processor with Dual socket motherboards, this versatile chassis shares power, cooling, network and acceleration modules. Its 4U form factor allow up to 10 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 8 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-G493 Model support upto 8GPU.

Specifications	
Form factor	<ul style="list-style-type: none"> • 4U rack mount • Dimensions (WxDxH) – 448 x 176 x 880
Processor subsystem	<ul style="list-style-type: none"> ○ 5th Generation Intel® Xeon® Scalable Processors ○ 4th Generation Intel® Xeon® Scalable Processors ○ Intel® Xeon® CPU Max Series ○ Dual processor, TDP up to 350W ○ 32 DIMM slots ○ Support DDR4 2133/2400/2666/2933/3200MHz RDIMM/LR DIMM, for up to 128GB per DIMM. ○ Intel® C741
GPU	<ul style="list-style-type: none"> • 8 x NVIDIA GPU supported
Storage Type	<ul style="list-style-type: none"> • SATA 3.0 • SAS HDD • SATA SSD • SAS SSD • NVMe SSD
Security	<ul style="list-style-type: none"> • Trusted Platform Module 2.0 v2 and v3 • Silicon-based Hardware Root of Trust • Cryptographically signed image upload • Signed firmware updates • Secure alerting • Automatic BIOS recovery • Rapid OS recovery • System Secure Erase • System Lockdown
Front I/O Ports	<ul style="list-style-type: none"> • 2 x USB 3.2 Gen1 • 1 x VGA • 2 x RJ45 • 1 x MLAN • 1 x Power button with LED • 1 x ID button with LED • 1 x NMI button • 1 x Reset button • 1 x Storage activity LED • 1 x System status LED
Visual Indicators	<ul style="list-style-type: none"> • Power • UID • LAN activity • HDD status
Rear Panel	<ul style="list-style-type: none"> • N/A

Expansion slots	<ul style="list-style-type: none"> 4 x PCIe x16 (Gen5 x16) FHFL slots, from PEX89144_0, for GPUs 4 x PCIe x16 (Gen5 x16) FHFL slots, from PEX89144_1, for GPUs 2 x PCIe x16 (Gen5 x16) FHFL slots, from PEX89144_0 2 x PCIe x16 (Gen5 x16) FHFL slots, from PEX89144_1 1 x PCIe x16 (Gen5 x16) low-profile slot on the front side, from CPU_0 1 x PCIe x16 (Gen5 x16) low-profile slot on the front side, from CPU_1
Drive bays options	<ul style="list-style-type: none"> 12 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4* hot-swappable bays - (2 x NVMe from CPU_0, 2 x NVMe from CPU_1, 4 x NVMe from PEX89144_0, 4 x NVMe from PEX89144_1)
Power	<ul style="list-style-type: none"> 3+1 3000W 80 PLUS Titanium redundant power supplies
Cooling	<ul style="list-style-type: none"> 80 x 25/38mm internal fans
Temperature	<ul style="list-style-type: none"> Operating temperature: 10°C to 35°C Operating humidity: 8%-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
Weight	<ul style="list-style-type: none"> 28Kg
Operating System /Hypervisor Compliance	<ul style="list-style-type: none"> Microsoft Windows – Server 2012 R2, Server 2016, Server 2019, Server 2022 Linux – RHEL/CentOS 6.8/7.4, SUSE Enterprise Linux Server 11/12SP3, Ubuntu 16.04/18.04 KVM, VMWare, Hyper-V and Oracle virtualization
Server Management	<ul style="list-style-type: none"> BMC web based GUI interface to manage and monitor the sever resources. HTML based management framework allows to manage servers in physical, local and remote environments while operating in-band BMC network ports to manage the server out-of-band without a systems management software agent. BMC software plugins to monitor and analysis hardware performance parameters, alerting, telemetry streaming features etc. HTML based monitoring, driver updates & configuration, power monitoring & capping, RAID management, Out-of-band hardware & firmware inventory Zero-touch auto configuration to auto deploy a baseline server configuration profile Power Management parameter database storage for 5days. Dedicated remote management port and support IPv4 and IPv6.

	<ul style="list-style-type: none">• System health and systems components (CPU, RAM, HD, FANS, Power Supplies, HBA's, NICs) health monitoring support.• System hardware configuration and license restore and archiver support.• PXE based automated hardware configuration and Operating System deployment to multiple servers• Virtual IO management / stateless computing• BMC software support for integration with 3rd party management tools such as vCentre, System Center, BMC, Ansible and support for Redfish API
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