

**Amiron**

Intelligent Computing Server

Applications

Deep Learning / Intelligent Reasoning / Online Rendering / Data Modeling / Digital Twin

1. INTEL Purley 4-GPU Server

Model	AMSRVLG01-D12R	AMSRVLG02-D12R
Front hard drive	Up to 12x 3.5/2.5" SAS/SATA3.0 hot-swap hard drives	Up to 12x 3.5/2.5" SAS/SATA3.0 hot-swap hard drives
Rear hard drive	N/A	Optional rear 2x2.5" SAS/SATA or U.2 hard drives
Processor	1 or 2 1st/2nd generation Intel® Xeon® Scalable processors	1 or 2 1st/2nd generation Intel® Xeon® Scalable processors
Chipset	Intel® C612 A dedicated processor chipset	Intel® C612 A dedicated processor chipset
Memory	12 DDR4 memory slots, support DDR4 2133/2400/2666/2933MHz LRDIMM/RDIMM	12 DDR4 memory slots, support DDR4 2133/2400/2666/2933MHz LRDIMM/RDIMM
Storage controllers	Internal storage controller: PCH supports RAID 0\1\10&5 (for Windows only) Internal storage: 2 PCIe 3.0x2 M.2 interfaces 3x7pin SATA interfaces, 3 MiniSAS HD interfaces	Internal storage controller: PCH supports RAID 0\1\10&5 (for Windows only) Internal storage: 2 PCIe 3.0x2 M.2 interfaces 3x7pin SATA interfaces, 3 MiniSAS HD interfaces
Driver	12 hot-swap SAS/SATA (HDD/SSD)	12 hot-swap SAS/SATA (HDD/SSD)
Power	1200W, 1300W, 1600W, 2000W, 2200W hot-swap 1+1 redundant power supply	1200W, 1300W, 1600W, 2000W, 2200W hot-swap 1+1 redundant power supply)
External port & PCIe	The rear of the system supports 4 single-width, full-height PCIe3.0 x8 slots or 2 double-width, full-height PCIe3.0 x16 slots Front: 2 USB2.0 Rear: 1 VGA, 2 USB3.0, 1 RJ45 management network port, 2 RJ45 network ports	The rear of the system supports 4 single-width, full-height PCIe3.0 x8 slots or 2 double-width, full-height PCIe3.0 x16 slots Front: 2 USB2.0 Rear: 1 VGA, 2 USB3.0, 1 RJ45 management network port, 2 RJ45 network ports
Intelligent temp. control	Supports	Supports
Fan	Standard 8x 8038 hot-swap fans (8x 8056 fans are optional)	Standard 8x 8038 hot-swap fans
Network	2x 1GbE (RJ45) onboard	2x 1GbE (RJ45) onboard
Security	TPM/TMC (optional); case cover intrusion detection; chassis cover lock	TPM/TMC (optional); case cover intrusion detection; chassis cover lock
Management	IPMI2.0	IPMI2.0
OS	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu
Virtualization	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V
Certification	CCC	CCC
Size	695 x 433 x 87.6mm (D x W x H)	695 x 433 x 176.5mm (D x W x H)
Temperature	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C
Humidity	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)

2. INTEL Whitley 5-GPU Server

Model	AMSRVLG03-D02G	AMSRVLG04-D12G
Front hard drive	N/A	Up to 12x 3.5/2.5" SAS/SATA3.0 hot-swap hard drives
Rear hard drive	Rear 1x 2x2.5" hard disk module	Rear 1x 2x2.5" hard disk module
Processor	1 or 2 Intel® Xeon® Gen3 scalable processors	1 or 2 Intel® Xeon® Gen3 scalable processors
Chipset	Intel® C621A series dedicated processor chipset	Intel® C621A series dedicated processor chipset
Memory	16 DDR4 memory slots, support DDR4 2666/2933/3200MHz LRDIMM/RDIMM memory	16 DDR4 memory slots, support DDR4 2666/2933/3200MHz LRDIMM/RDIMM memory
Storage controllers	Internal storage controller: PCH supports RAID 0\1\10&5 (for Windows only) Internal storage: 1 PCIe 3.0 x4 M.2 interfaces, 3 MiniSAS HD interfaces, 2 SATA DOM ports, 1 COM port	Internal storage controller: PCH supports RAID 0\1\10&5 (for Windows only) Internal storage: 1 PCIe 3.0 x4 M.2 interfaces, 3 MiniSAS HD interfaces, 2 SATA DOM ports, 1 COM port
Driver	2 hot-swap SAS/SATA (HDD/SSD)	12 hot-swap SAS/SATA (HDD/SSD)
Power	1600W, 2000W, 2200W hot-swap 1+1 redundant power supply	1600W, 2000W, 2200W hot-swap 1+1 redundant power supply
External port & PCIe	Rear 10 full-height PCIe x16 slots {support 6 PCIe 3.0x8 (in PCIe 3.0 x16 slot), 1 PCIe 3.0x16 and 3 PCIe 4.0x16} Front: 2 USB2.0 Rear: integrated 2 Gigabit network ports, 1 independent RJ45 management network port, 2 USB3.0 ports, 1 VGA port	Rear 10 full-height PCIe x16 slots {support 6 PCIe 3.0x8 (in PCIe 3.0 x16 slot), 1 PCIe 3.0x16 and 3 PCIe 4.0x16} Front: 2 USB2.0 Rear: integrated 2 Gigabit network ports, 1 independent RJ45 management network port, 2 USB3.0 ports, 1 VGA port
Intelligent temp. control	Supports	Supports
Fan	Internal 3x 12038 hot-swap N+1 redundant fans Rear 2x 8038 temperature-controlled fans	Internal 3x 12038 hot-swap N+1 redundant fans Rear 2x 8038 temperature-controlled fans
Network	2x 1GbE (RJ45) onboard	2x 1GbE (RJ45) onboard
Security	TPM/TMC (optional); chassis cover lock	TPM/TMC (optional); chassis cover lock
Management	IPMI2.0	IPMI2.0
OS	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu
Virtualization	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V
Certification	CCC	CCC
Size	440 x 433 x 176.5mm (D x W x H)	440 x 433 x 176.5mm (D x W x H)
Temperature	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C
Humidity	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)

3. AMD 5-GPU Server

Model	AMSRVAG05-D02G	AMSRVAG06-D12G
Front hard drive	N/A	Up to 12x 3.5/2.5" SAS/SATA3.0 hot-swap hard drives
Rear hard drive	Rear 1x 2x2.5" hard disk module	Rear 1x 2x2.5" hard disk module
Processor	Support 1 AMD EPYC 7003; Compatible with AMD EPYC 7002 and 7001 series	Support 1 AMD EPYC 7003; Compatible with AMD EPYC 7002 and 7001 series
Chipset	Intel® C621A series dedicated processor chipset	Intel® C621A series dedicated processor chipset
Memory	16 DDR4 memory slots, support 2400/2666/2933 MHz DDR4 memory	16 DDR4 memory slots, support 2400/2666/2933 MHz DDR4 memory
Storage controllers	1 M.2 (PCIe x 4) interface 2 MiniSAS HD interfaces	1 M.2 (PCIe x 4) interface 2 MiniSAS HD interfaces
Driver	N/A	12 hot-swap SAS/SATA (HDD/SSD)
Power	Support 800W, 1200W, 1600W, 2200W hot-swap redundant power (adapt according to the actual power)	Support 800W, 1200W, 1600W, 2200W hot-swap redundant power (adapt according to the actual power)
External port & PCIe	Front: 2 USB2.0 Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports Support 6 PCIe x8 and 4 PCIe x16	Front: 2 USB2.0 Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports Support 6 PCIe x8 and 4 PCIe x16
Intelligent temp, control	Supports	Supports
Fan	Standard 3x 12038 hot-swap fans	Standard 3x 12038 hot-swap fans
Network	2x 1GbE (RJ45) onboard	2x 1GbE (RJ45) onboard
Security	Support TPM module	Support TPM module
Management	1 RJ45 management network port, IPMI2.0	1 RJ45 management network port, IPMI2.0
OS	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu
Virtualization	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V
Certification	CCC	CCC
Size	440 x 433 x 176.5mm (D x W x H)	440 x 433 x 176.5mm (D x W x H)
Temperature	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C
Humidity	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)

Model	AMSRVAG07-D02R	AMSRVAG08-D12R
Front hard drive	N/A	Up to 12x 3.5/2.5" SAS/SATA hot-swap hard drives
Rear hard drive	Rear 1x 2x2.5" hard disk module	Rear 1x 2x2.5" hard disk module
Processor	Support 2 AMD EPYC 7003; Compatible with AMD EPYC 7002 and 7001 series	Support 2 AMD EPYC 7003; Compatible with AMD EPYC 7002 and 7001 series
Chipset	Intel® C621A series dedicated processor chipset	Intel® C621A series dedicated processor chipset
Memory	16 DDR4 memory slots, support 2400/2666/2933 MHz DDR4 memory	16 DDR4 memory slots, support 2666/2933/3200 MHz LRDIMM/RDIMM memory
Storage controllers	1 M.2 (PCIe x 4) interface 2 MiniSAS HD interfaces	1 M.2 (PCIe x 4) interface 2 MiniSAS HD interfaces
Driver	N/A	12 hot-swap SAS/SATA (HDD/SSD)
Power	Support 800W, 1200W, 1600W, 2200W hot-swap redundant power (adapt according to the actual power)	Support 800W, 1200W, 1600W, 2200W hot-swap redundant power (adapt according to the actual power)
External port & PCIe	Front: 2 USB2.0 Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports Support 6 PCIe x8 and 4 PCIe x16	Front: 2 USB2.0 Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports Support 6 PCIe x8 and 4 PCIe x16
Intelligent temp. control	Supports	Supports
Fan	Standard 3x 12038 hot-swap fans	Standard 3x 12038 hot-swap fans
Network	2x 1GbE (RJ45) onboard	2x 1GbE (RJ45) onboard
Security	Support TPM module	Support TPM module
Management	1 RJ45 management network port, IPMI2.0	1 RJ45 management network port, IPMI2.0
OS	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu
Virtualization	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V
Certification	CCC	CCC
Size	440 x 433 x 176.5mm (D x W x H)	440 x 433 x 176.5mm (D x W x H)
Temperature	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C
Humidity	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)

4. AMD 8-GPU Server

Model	AMSRVAG09-S02R
Front hard drive	N/A
Rear hard drive	Standard: 4x 2.5" SATA hard drives Optional: Rear can be expanded to 8x2.5" SATA/SAS/NVMe hard drives, built-in 4*25" SATA hard drives
Processor	Support 1 AMD EPYC7003 (Milan) processor; Compatible with AMD EPYC 7002 (Rome) and AMD EPYC 7001 (Naples); Maximum TDP: 240W
Memory	16 DDR4 memory slots, support 2400/2666/2933 MHz DDR4 memory
Storage controllers	2M.2(PCIex4) interfaces, 2 MiniSAS SFF-8643 connectors, 4 Slimline interfaces (can be split into X4X4, from which 1 interface is fixed as X4X4), 2x7Pin SATA connectors
Driver	N/A
Power	Support 1300W, 1600W, 2200W hot-swap redundant power (adapt according to the actual power)
External port & PCIe	Front: 2 USB2.0 Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports Support 2 PCIe 3(x8 slot+16 slot, support full-height, half-length, single-width card, can be split into X4X4)
Intelligent temp, control	Supports
Fan	Standard 8x 8038 hot-swap redundant fans or 3x12038 fans, optional rear 5x8038 fans
Network	2x 1GbE (RJ45) onboard
Security	Support TPM module
Management	1 RJ45 management network port, IPMI2.0
OS	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu
Virtualization	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V
Certification	CCC
Size	695 x 433.4 x 176.5mm (D x W x H)
Temperature	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C
Humidity	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)

5. INEL Whitley 10-GPU Server

Model	AMSRVLG10-D02R	AMSRVLG11-D12R
Front hard drive	up to 4x 3.5" /2.5" SAS/SATA hot-swap hard drives Rear 2x 2.5" SAS/SATA hard drives	up to 10x 2.5" SAS/SATA hot-swap hard drives Rear 2x 2.5" SAS/SATA hard drives
Rear hard drive	Rear optional added 2x 2.5" SAS/SATA or U.2 hard drives	Rear optional added 2x 2.5" SAS/SATA or U.2 hard drives
Processor	1 or 2 Intel® Xeon® Series Gen3 Scalable processors	1 or 2 Intel® Xeon® Series Gen3 Scalable processors
Chipset	Intel® C621A series server-specific chipset	Intel® C621A series server-specific chipset
Memory	16 DDR4 memory slots, support DDR4 2666/2933/3200 MHz LRDIMM/RDIMM memory	16 DDR4 memory slots, support DDR4 2666/2933/3200 MHz LRDIMM/RDIMM memory
Storage controllers	Internal storage controller: PCH supports RAID 0 .1 10&5 for Windows only); Internal storage: 1 M.2 (PCIe3.0 x4) interface, 3 MiniSAS HD interfaces, 2 SATA DOM interfaces	Internal storage controller: PCH supports RAID 0 .1 10&5 for Windows only); Internal storage: 1 M.2 (PCIe3.0 x4) interface, 3 MiniSAS HD interfaces, 2 SATA DOM interfaces
Driver	4 hot-swap SAS/SATA (HDD/SSD)	10 hot-swap SAS/SATA (HDD/SSD/U.2)
Power	1200W, 1300W, 1600W, 2200W hot-swap 3+1 redundant power	1200W, 1300W, 1600W, 2200W hot-swap 3+1 redundant power
External port & PCIe	Front 10 full-height PCIe x16 slots; Rear 7 half-height PCIe x16 slots (support 4 PCIe 3.0x8 (in PCIe 3.0 x16 slot) and 3 PCIe 4.0x16; Optional 2 PCIe 3.0x8 (in PCIe 3.0 x16 slot), 1 PCIe 3.0x16, and 3 PCIe 4.0x16); Front: 2 USB2.0; Rear: Integrated 2 Gigabit network ports, 1 independent IPMI management network port, 2 USB3.0 ports, 1 VGA port	Front 10 full-height PCIe x16 slots; Rear 7 half-height PCIe x16 slots (support 4 PCIe 3.0x8 (in PCIe 3.0 x16 slot) and 3 PCIe 4.0x16; Optional 2 PCIe 3.0x8 (in PCIe 3.0 x16 slot), 1 PCIe 3.0x16, and 3 PCIe 4.0x16); Front: 2 USB2.0; Rear: Integrated 2 Gigabit network ports, 1 independent IPMI management network port, 2 USB3.0 ports, 1 VGA port
Intelligent temp, control	Supports	Supports
Fan	11x8038 hot-swap fans	11x8038 hot-swap fans
Network	2x 1GbE (RJ45) onboard	2x 1GbE (RJ45) onboard
Security	Support TPM module chassis upper cover lock	Support TPM module chassis upper cover lock
Management	PMI2.0	PMI2.0
OS	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu	Microsoft Windows Server, Redhat Enterprise Linux, Suse Enterprise Linux Server, Ubuntu
Virtualization	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V	Citrix Xen Server, Vmware ESXi, Linux KVM, Windows Hyper-V
Certification	CCC, CE, FCC, ROHS	CCC, CE, FCC, ROHS
Size	790 x 433 x 176.5mm (D x W x H)	790 x 433 x 176.5mm (D x W x H)
Temperature	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C	Operating temperature: 5°C - 35°C (indoor) Storage temperature: -40°C - 70°C
Humidity	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)	Operating humidity: 20% - 80% (non-condensing) Storage humidity: 20% - 90% (non-condensing)