



Front View



Features

- 2U 2-Node high-availability storage server supports 24 hot swap 2.5" SAS drive bays
- Optimized for mission-critical, enterprise-level storage applications
- Fully redundant, fault-tolerant system supporting hot swappable controller nodes and storage drives
- Supports 2nd Gen. Intel® Xeon® Scalable processors (Cascade Lake Refresh/Cascade Lake/Skylake)
- Option for PCIe NTB line between nodes for communication and fail-over
- Build-in Broadcom SAS3x36R SAS expander per node

Rear View

2 x 10GbE SFP+ (per node)

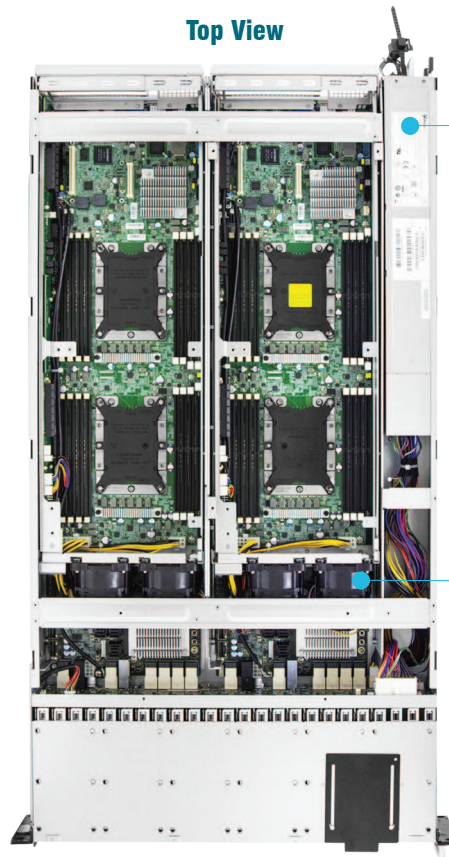


Specifications

Dimensions (W x D x H)	mm : 435 x 816.85 x 87.9		
	inches : 17.1 x 32.1 x 3.4		
Motherboard (per node)	AIC Server Board Pavo		
Processor (per node)	Processor Support	• Intel® Xeon® Scalable Processors (Cascade Lake Refresh/Cascade Lake/Skylake) • Supports CPU TDP up to 165W <i>*Please contact AIC Technical Support for more info/details about optimized CPUs and specialized system.</i>	
	UPI Speeds	10.4 GT/s, 9.6 GT/s	
	Socket Type	Socket P0 (LGA-3647 Socket)	
Chipset Support (per node)	Intel® Lewisburg C620 series PCH		
System Memory (per node)	• 6 x memory channels per CPU, 2 channels with 2DPC + 4 channels with 1DPC • 16 x DIMM slots support: DDR4 2933/2666/2400MHz • Intel® Optane™ DC Persistent Memory (Apache Pass) support		
Front Panel	System power on/off		
LEDs	A	• Power (Secondary) • Warning	
	B	• Power (Primary) • Warning	
Drive Bays	External	2.5" hot swap	24
	Internal	2.5"	2 (per node)
Backplane	1 x 24-port 12Gb SAS dual-loop		
Expansion Slots (per node)	PCIe 3.0	• 3 x8 slots (2 LP, 1 internal LP) • 1 x OCP Mezzanine card V2.0 <i>*Please contact AIC Technical Support for custom rear bracket about PCIe and OCP card.</i>	

Expander Board (per node)	1 x 36-port 12Gb SAS expander board with 3 SFF-8643 connectors		
Riser Card (included) (per node)	RC-PE2U04-TY	3 x8 PCIe slots	
System BIOS	BIOS Type	Insyde UEFI BIOS	
	BIOS Features	• ACPI • PXE • WOL • AC loss recovery • IPMI KCS interface • SMBIOS • Serial console redirection • BIOS Boot Specification • BIOS Recovery Mode • SRIOV • iSCSI • TPM • PCIe Hotplug	
On-board Devices	SATA	Intel® Lewisburg PCH on-chip solution • 4 x SATA 6.0 Gb/s (by 1 x mini-SAS HD) • 2 x SATA 6.0 Gb/s (by 2 x SATA 7 pin) • 5 x SATA 6.0 Gb/s (by MAX I/O) • RAID 0, 1, 5, 10 support by Intel RSTe	
	BMC	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor • Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH Support • HTML5 • Redfish	
	Network Controllers	• Intel® PCH (Lewisburg) Integrated 10GbE LAN controller w/ dual SFP+ rear connectors • Intel® I350 dual-port RJ45 rear connectors • Realtek RTL8211E GbE Ethernet for BMC dedicated management port	
	Graphics	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor • PCIe VGA/2D Controller • 1920x1200@60Hz 32bpp	

Top View



1300W 1+1 redundant power supply 80+ Platinum

2 x 60x56mm easy swap fans (per node)

(Power supply and Server board are included.)

HA201-PV

Rear I/O (per node)	LAN	• 2 x 10GbE SFP+ • 2 x GbE RJ45 • 1 x GbE RJ45 dedicated to BMC management
	USB	2 x USB 3.0 Type A
	VGA	1 x external DB-15 VGA port
	Serial Port	1 x audio jack for COM port
TPM Support	2.0 onboard	
Power Supply	1300W 1+1 redundant power supply 80+ Platinum • AC INPUT : 100-120V,50/60Hz,12A • DC OUTPUT : 900W • AC INPUT : 200-240V,50/60Hz,8A • DC OUTPUT : 1300W	
System Cooling (per node)	2 x 60x56mm easy swap fans	

System Management	• IPMI 2.0 • KVM over IP • Media redirection • Temperature, • System temperature • System ID	• Remote Power • SEL message • SNMP support • Intel NM • HTML5 • Redfish
Environmental Specifications	• Storage temperature : -10°C(14°F) ~ 60°C(140°F) • Operating temperature : 0°C(32°F) ~ 35°C(95°F) • Storage operating humidity : 5%~95% non-condensing	
Gross Weight	(w/ PSU & Rail)	kgs : 41
		lbs : 19
Packaging Dimensions	(W x D x H)	mm : 605 x 1060 x 323
		inches : 23.6 x 41.34 x 12.6
Mounting	Standard	28" tool-less slide rail

Ordering Information

SKU Number	Description
XP1-A201PVXX	2U 24-bay high availability storage server, 2x canisters, 2x pavo motherboard (one Board per node), 1x backplane (24x SATA backplane), 3Y 1300W redundant power supply, 2x riser card, 4x Sanyo Denki 6056, 4x 1U passive heatsink, sliding rail 28", w/o bezel