



Front View

24 x 2.5" hot swap drive bays



Features

- 2U 2-Node high-availability storage server supports 24 hot swap 2.5" drive bays for NVMe SSDs (U.2)
- Optimized for mission-critical, enterprise-level storage applications
- Fully redundant, fault-tolerant system supporting hot swappable controller nodes and storage drives
- Two compute nodes, Active-Active configuration, each supporting two 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake Refresh/Cascade Lake/Skylake)
- 1 x16 PCIe, 1 x8 PCIe and 1 OCP Mezzanine slots per node provide direct links to CPU
- PCIe NTB link between nodes for communication and fail-over

Rear View

2 x 10GbE SFP+ (per node)



Specifications

Dimensions (W x D x H)	mm : 435 x 911 x 87		
	inches : 17.1 x 35.9 x 3.4		
Motherboard (per node)	AIC Server Board Pavo		
Processor (per node)	Processor Support	• 2nd Gen 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 dual loop NVMe backplane		
Expansion Slots (per node)	PCIe 3.0	• 1 x16 slot (FH) • 1 x16 slot (x8 mode) (FH) • 1 OCP Mezzanine card V2.0 <i>*Please contact AIC Technical Support for custom rear bracket about PCIe and OCP card.</i>	

Expander Boards (per node)	2 x 64-port Broadcom/PLX 9765 PCIe switch boards		
Riser Card (included) (per node)	RC-PE2U08-TY	1 x16 PCIe slot + 1 x8 PCIe slot	
System BIOS	BIOS Type	Insyde UEFI BIOS	
	BIOS Features	• ACP • PXE • WOL • AC loss recovery • Serial console redirection • BIOS boot specification • BIOS recovery mode • SMBIOS • 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 with dual SFP+ rear connectors • Intel® I350 dual-port GbE RJ45 rear connectors • Realtek RTL8211E 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

(Power supply and Server board are included.)

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
	Video Output	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, fan, voltage, PSU sensor monitor • System temperature • System ID / System fail indicator	• Remote power on/off/reset • SEL message alarm through mail • 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 : 43.5
		lbs : 95.9
Packaging Dimensions	(W x D x H)	mm : 615 x 1220 x 338
		inches : 24.2 x 48 x 13.3
Mounting	Standard	28" tool-less slide rail

Ordering Information

SKU Number	Description
XP1-A202PV01	2U 24-bay NVMe storage server, 2x canister, 12G EOB 24-port backplane, 1300W redundant power supply Platinum, Pavo motherboard, Intel® Xeon® Scalable Processors, DDR4 RDIMM x16, Intel® PCH C622, 2x 10G SFP+, MAX I/O x64, OCP MEZZ v2, with 2 set BBU, 4x CPU heatsinks, 28" slide rail, w/o bezel
XP1-A202PV02	2U 24-bay NVMe storage server, 2x canister with 2x 2.5" HDD cage, 12G EOB 24-port, backplane, 1300W HRP Platinum, Pavo motherboard, Intel® Xeon® Scalable Processors, DDR4 RDIMM x16, Intel® PCH C622, 2x 10G SFP, MAX I/O x64, OCP MEZZ v2, 4x CPU heatsinks, 28" slide rail, w/o bezel, w/o BBU