



### 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

<b>Dimensions</b> (W x D x H)	mm : 435 x 911 x 87		
	inches : 17.1 x 35.9 x 3.4		
<b>Motherboard</b> (per node)	AIC Server Board Pavo		
<b>Processor</b> (per node)	Processor Support	<ul style="list-style-type: none"> <li>• Intel® Xeon® Scalable Processors (Cascade Lake Refresh/Cascade Lake/Skylake)</li> <li>• Supports CPU TDP up to 165W</li> </ul> <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)	
<b>Chipset Support</b> (per node)	Intel® Lewisburg C620 series PCH		
<b>System Memory</b> (per node)	<ul style="list-style-type: none"> <li>• 6 x memory channels per CPU, 2 channels with 2DPC + 4 channels with 1DPC</li> <li>• 16 x DIMM slots support: DDR4 2933/2666/2400MHz</li> <li>• Intel® Optane™ DC Persistent Memory (Apache Pass) support</li> </ul>		
<b>Front Panel</b>	System power on/off		
<b>LEDs</b>	A	<ul style="list-style-type: none"> <li>• Power (Secondary)</li> <li>• Warning</li> </ul>	
	B	<ul style="list-style-type: none"> <li>• Power (Primary)</li> <li>• Warning</li> </ul>	
<b>Drive Bays</b>	External	2.5" hot swap	24
	Internal	2.5"	2 per node
<b>Backplane</b>	1 x 24-port dual loop NVMe backplane		
<b>Expansion Slots</b> (per node)	PCIe 3.0	<ul style="list-style-type: none"> <li>• 1 x16 slot (FH)</li> <li>• 1 x16 slot (x8 mode) (FH)</li> <li>• 1 x OCP Mezzanine card V2.0</li> </ul> <i>*Please contact AIC Technical Support for custom rear bracket about PCIe and OCP card.</i>	

<b>Expander Boards</b> (per node)	2 x 64-port Broadcom/PLX 9765 PCIe switch board	
<b>Riser Card</b> (included) (per node)	RC-PE2U08-TY	1 x16 PCIe slot + 1 x8 PCIe slot
<b>System BIOS</b>	BIOS Type	Insyde UEFI BIOS
	BIOS Features	<ul style="list-style-type: none"> <li>• ACP</li> <li>• PXE</li> <li>• WOL</li> <li>• AC loss recovery</li> <li>• Serial console redirection</li> <li>• BIOS boot specification</li> <li>• BIOS recovery mode</li> <li>• SMBIOS</li> <li>• SRIOV</li> <li>• iSCSI</li> <li>• TPM</li> <li>• PCIe hotplug</li> </ul>
<b>On-board Devices</b>	SATA	<ul style="list-style-type: none"> <li>Intel® Lewisburg PCH on-chip solution</li> <li>• 4 x SATA 6.0 Gb/s (by 1 x mini-SAS HD)</li> <li>• 2 x SATA 6.0 Gb/s (by 2 x SATA 7 pin)</li> <li>• 5 x SATA 6.0 Gb/s (by MAX I/O)</li> <li>• RAID 0, 1, 5, 10 support by Intel RSTe</li> </ul>
	BMC	<ul style="list-style-type: none"> <li>Aspeed AST2500 Advanced PCIe Graphics &amp; Remote Management Processor</li> <li>• Baseboard Management Controller</li> <li>• Intelligent Platform Interface 2.0 (IPMI 2.0)</li> <li>• iKVM, Media Redirection, IPMI over LAN, Serial over LAN</li> <li>• SMASH Support</li> <li>• HTML5</li> <li>• Redfish</li> </ul>
	Network Controllers	<ul style="list-style-type: none"> <li>• Intel® PCH (Lewisburg) Integrated 10GbE LAN controller with dual SFP+ rear connectors</li> <li>• Intel® I350 dual-port GbE RJ45 rear connectors</li> <li>• Realtek RTL8211E for BMC dedicated management port</li> </ul>
	Graphics	<ul style="list-style-type: none"> <li>Aspeed AST2500 Advanced PCIe Graphics &amp; Remote Management Processor</li> <li>• PCIe VGA/2D Controller</li> <li>• 1920x1200@60Hz 32bpp</li> </ul>

## Top View



1300W 1+1 redundant power supply 80+ Platinum

(Power supply and Server board are included.)

<b>Rear I/O</b> (per node)	LAN	<ul style="list-style-type: none"> <li>• 2 x 10GbE SFP+</li> <li>• 2 x GbE RJ45</li> <li>• 1 x GbE RJ45 dedicated to BMC management</li> </ul>
	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
<b>TPM Support</b>	2.0 onboard	
<b>Power Supply</b>	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	
<b>System Cooling</b> (per node)	2 x 60x56mm easy swap fans	

<b>System Management</b>	<ul style="list-style-type: none"> <li>• IPMI 2.0</li> <li>• KVM over IP</li> <li>• Media redirection</li> <li>• Temperature, fan, voltage, PSU sensor monitor</li> <li>• System temperature</li> <li>• System ID / System fail indicator</li> </ul>	<ul style="list-style-type: none"> <li>• Remote power on/off/reset</li> <li>• SEL message alarm through mail</li> <li>• SNMP support</li> <li>• Intel NM</li> <li>• HTML5</li> <li>• Redfish</li> </ul>
	<b>Environmental Specifications</b>	
<ul style="list-style-type: none"> <li>• Storage temperature : -10°C(14°F) ~ 60°C(140°F)</li> <li>• Operating temperature : 0°C(32°F) ~ 35°C(95°F)</li> <li>• Storage operating humidity : 5%~95% non-condensing</li> </ul>		
<b>Gross Weight</b>	(w/ PSU & Rail)	kgs : 43.5
		lbs : 95.9
<b>Packaging Dimensions</b>	(W x D x H)	mm : 615 x 1220 x 338
		inches : 24.2 x 48 x 13.3
<b>Mounting</b>	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, 4xCPU 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