



Front View

24 x 3.5" hot swap drive bays

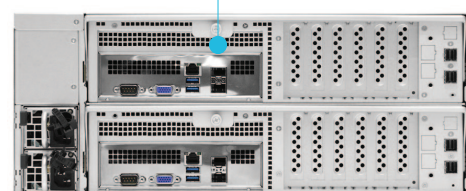


Features

- 4U 2-Node high-availability storage server supports 24 hot swap 3.5" SAS drive bays
- Fully redundant, fault-tolerant system supporting hot swappable compute 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)
- 10GbE, PCIe NTB or SAS link between nodes for communication and fail-over
- Built-in Broadcom SAS3x48R SAS/SATA expander per node
- Intel® Trusted Platform Module (TPM) header to support Intel® Trusted Execution Technology (TXT)

Rear View

2 x 10GbE SFP+



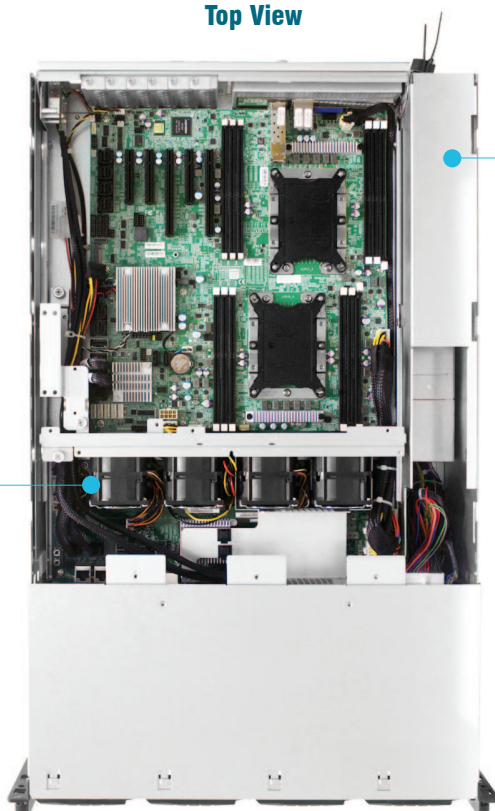
Specifications

Dimensions (W x D x H)	mm : 438 x 705 x 174.5		
	inches : 17.2 x 27.7 x 6.8		
Motherboard (per node)	AIC Server Board Virgo		
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, 1 x DIMM per channel • 12 x DIMM slots support: 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	3.5" hot swap	24
	Internal	2.5"	2+2 (7mm per node)
Backplane	1 x 24-port 12Gb SAS backplane		
Expander Board (per node)	1 x 48-port 12Gb SAS expander board		

Expansion Slots (per node)	PCIe 3.0	• 2 x16 slots (LP) • 3 x8 slots (LP)
	BIOS Type	Insyde UEFI BIOS
System 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/SAS	Intel® Lewisburg PCH on-chip solution • 8 x SATA 6.0 Gb/s (by 2 x mini-SAS) • 2 x SATA 6.0 Gb/s (by 2 x SATA 7 pin) • RAID 0, 1, 5, 10 support by Intel RSTe Broadcom SAS IOC SAS3008 supports up to 8 ports 12G SAS via 2 x mini-SAS HD (optional)
	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 10GbE SFP+ +2x configurable ports support 10GbE (KR/SFI/XFI) or 1GbE (KX) (option) • 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

4 x 60x56mm
easy swap fans



(Power supply and Server board are included.)

1300W 1+1 redundant
power supply 80+ Platinum



2 Nodes

Rear I/O (per node)	LAN	• 2 x 10GbE SFP+ • 1 x 10/100M 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 external DB-9 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)	4 x 60x56mm easy swap fans	

System Management	• Baseboard Management Controller • Intelligent Platform Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH Support • 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 : 47
		lbs : 104
Packaging Dimensions	(W x D x H)	mm : 657 x 940 x 468
		inches : 25.8 x 37 x 18.4
Mounting	Standard	28" slide rail

Ordering Information

SKU Number	Description
XP1-A401VG01	4U 24-bay storage server, 24x SATA/SAS hot-swap 3.5/2.5" universal bay, 2x canister, 4x 9mm 2.5" internal bay, 12G expander board with 2x SFF-8643, 2x SFF-8644, 1300W 1+1 redundant power supply, 4x 6056 fan, 2U heatsink, Virgo motherboard, 2x 10G SFP+, LSI3008 SAS IOC, 28" slide rail, w/o bezel
XP1-A401VG02	4U 24-bay storage server, 24x SATA/SAS hot-swap 3.5/2.5" universal bay, 2x canister, 4x 9mm 2.5" internal bay, 12G expander board with 2x SFF-8643, 2x SFF-8644, 1300W 1+1 redundant power supply, 4x 6056 fan, 1U heatsink, BBU bracket, Virgo motherboard with 2x 10G SFP+, LSI3008 SAS IOC, 28" slide rail, w/o bezel
XP1-A401VG05	4U 24-bay storage server, 24x SATA/SAS hot-swap 3.5/2.5" universal bay, 2x canister, 4x 9mm 2.5" internal bay, 12G expander board with 2x SFF-8643, 2x SFF-8644, 1300W 1+1 redundant power supply, 4x 6056 fan, 1U heatsink, BBU bracket, BBU, Virgo motherboard with 2x 10G SFP+, LSI3008 SAS IOC, 28" slide rail, w/o bezel

HA401-VG