

HPS-2R420-40S1

**2U Server Grade IPC With
8-core Xeon CPU, PCIe
Gen 3.0, 2 Hot Swap Hard
Drives**



Features

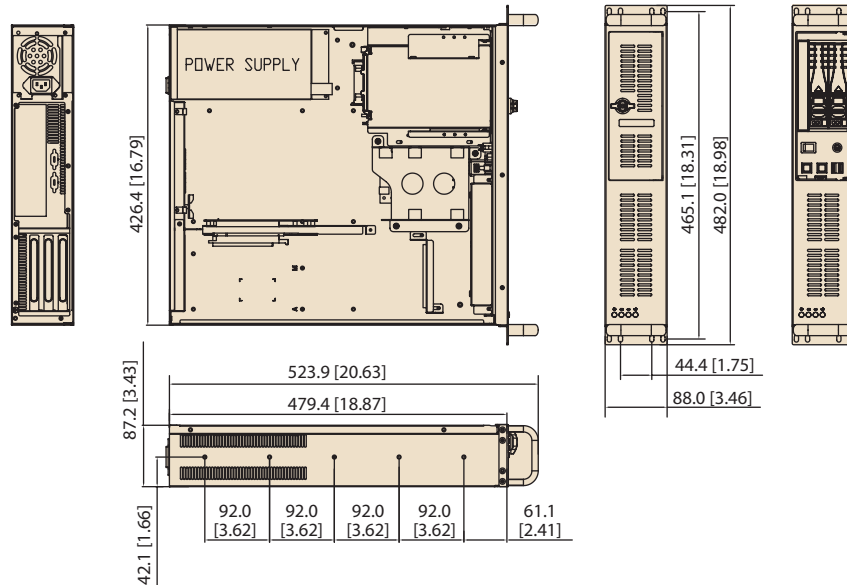
- 7 years longevity support- Revision control
- 0 ~ 40° C operating temperature
- 1G operating vibration
- Reliable resume from AC power loss function
- Intel® Romley EP (C602J) platform
 - Supports Intel® Xeon E5-2400 Series CPUs up to 8 cores/16 threads
 - Triple channel DDR3 1600 MHz ECC & Registered DIMMs up to 96 GB
- Supports 1 PCIe x 8, 2 PCIe x 4 (Gen 3.0) slots through riser card
- 2U chassis with 18.9" short depth and 2 hot swap hard drives
- 400W single PSU
- Air filter on chassis door for better dust prevention

Specifications

Processor System	CPU	Intel LGA1356 Xeon E5-2400 Single processor (up to 95W TDP)	
	Multi-Core	8	
	Chipset	C602J	
Memory	Technology	DDR3 ECC-Reg/ECC/Non-ECC up to 1600MHz	
	Sockets	6 x 240-pin DIMM	
	Max Capacity	96 GB (16 GB x 6)	
Graphics	Controller	Aspeed AST1300	
	VRAM	64MB	
Expansion Slot	Depends on the riser card selected		
Ethernet	Interface	10/100/1000Mbps x 2	
	Controller	GbE LAN1: Intel 82579LM, GbE LAN2: Intel 82574L	
Remote Management	Advantech Remote Monitoring Utility		
Drive Bays	Slim Optical Drive Bay	1	
	3.5" Front HDD Swap Tray	2	
	3.5" Front-Accessible Bay	-	
	3.5" Internal Bay	2	
RAID	SATA RAID 0, 1, 5, 10 by Intel on-board RAID (Embedded RAID controller in PCH)		
Front I/O Interface	USB	2 x USB 2.0	
	USB	4 x USB 2.0	
Rear I/O Interface	PS/2	2 (1 x keyboard and 1 x mouse)	
	Serial	1 (RS-232)	
	VGA	1	
	Parallel	-	
	RJ-45 GbE	2	
	RJ-45 IPMI	-	
Internal I/O Interface	USB Through Pin Header	6 x USB 2.0 (2 occupied by front USB ports)	
	USB Type-A	2	
	SATA II 300MB/s	4	
	SATA III 600MB/s	2	
	DVI	-	
	SMBus	-	
	Serial Port Header	1 (RS-232)	
Power Supply	DIO	8 bit GPIO	
	Power Output Wattage	400w	
Cooling	Input Range	AC 100 ~ 240 V	
	Chassis Fan	2 (8 cm/47 CFM each) + 1 (6CM / 28 CFM)	
Miscellaneous	Air Filter	Yes	
	LED Indicators	Power, HDD, Temperature, Fan	
Environment	Temperature	Operating 0 ~ 40° C (32 ~ 104° F)	Non-Operating -20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85% @ 40° C, non-condensing	
	Vibration (5 ~ 500 Hz)	10 ~ 95% @ 40° C, non-condensing	
	Shock	1 Grms	2 Grms
Physical Characteristics	Weight	10G (with 11 ms duration, half sine wave)	
	Chassis Form Factor	30G (with 11 ms duration, half sine wave)	
	Dimensions (W x H x D)	482 x 88 x 480 mm (19" x 3.46" x 18.9")	
	Weight (Chassis Only)	11.7 kg (25.7 lb)	

Dimensions

Unit: mm [inch]



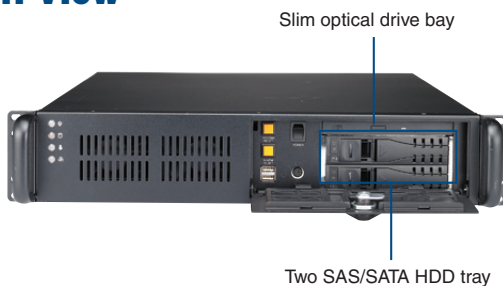
Ordering Information

Part Number	Description
HPS-2R420-40S1	2U Server Grade IPC With 8-core Xeon CPU, PCIe Gen 3.0, 2 Hot Swap Hard Drives

Optional Parts

Item	Part Number
ACP-2320 Rail Kit	9680006905
7.1 Channel HD Audio Extension Module	PCA-AUDIO-HDA1E (Occupying 1 expansion slot)
Slim type ODD power cable	1700011772
SATA cable with lock	1700003194
Riser card of 3 PCI slots	AIMB-R430P-03A2E
Riser card of 2 PCI-X, 1 PCIe x 8 slots	ASMB-RF3X8-21A1E
Riser card of 2 PCIe x 4, 1 PCIe x 8 slots	ASMB-RF348-21A1E

Front View



Rear View



Validated OS

Advantech P/N	OS for Embedded System
968QS28F08	Windows Server® 2008 with Hyper-V™ Standard 32 Bit/64 Bit
968QSV2845	Windows Server® 2008 without Hyper-V™ Standard 32 Bit/64 Bit
968QW7PROE	Windows® 7 Professional 32 Bit/64 Bit
968QSV23R2	Windows Server™ 2003 R2, Standard Edition 32 Bit
968QS3R264	Windows Server™ 2003 R2, Standard Edition 64 Bit
968QXPPRO3	Windows® XP Professional 32 Bit
968QXPPR64	Windows® XP Professional 64 Bit

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