

ASMB-820 Performance 1U Server

**Compact 1U Server System
With Single 8-core Xeon
CPUs, Gen 3.0 PCIe, 6 SATA
Hard Drives and 650W RPS**

NEW



Features

- 7 years longevity support- Revision control
- 0 ~ 40° C operating temperature
- Reliable resume from AC power loss function
- Intel® Romley EP (C602J) platform
 - Supports Intel® Xeon E5-2400 Series CPU up to 8 cores/16 threads
 - DDR3 1600 MHz ECC & Registered DIMMs up to 96 GB
- Compact 1U form factor with 6 SATA hard drives
- Support SATA RAID 0, 1, 5, 10 (Optional RAID upgrade kit is available)
- 80 PLUS 650W 1+1 Redundant PSU
- Supports 1 PCIe x 16 (Gen 3.0) slot through riser card

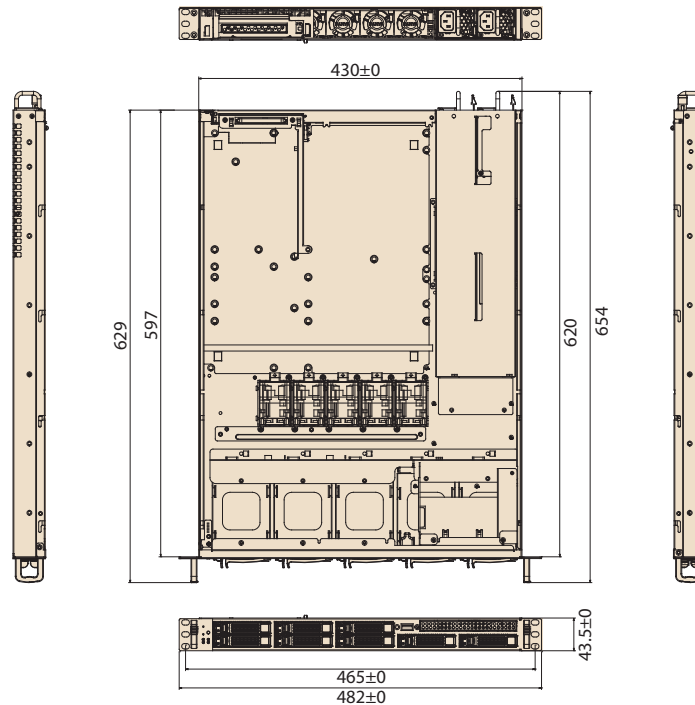
Specifications

Processor System	Chipset	Intel C602J Chipset	
	CPU	Intel LGA1356 Xeon E5-2400 Single processor (up to 95W TDP)	
	L2 Cache	20/15/10 MB	
	Front Side Bus	-	
	Memory	ECC & Register or ECC or non ECC DDR3 1600/1333/1066 MHz UDIMMs, maximum 96 GB	
Graphics	Controller	Aspeed AST1300	
	VRAM	64 MB	
Expansion Slot	PCIe x16	1 (through riser card)	
	PCIe x8	-	
	PCIe x4	-	
	PCI-X 64bit	-	
Drive Bay	Slime Odd Bay	1 (ODD should be purchased separately)	
	5.25" Front-Accessible	-	
	3.5" Front-Accessible	-	
	2.5" (Hot-swappable)	6 (Onboard support 2x SATA 6Gb/s + 4x SATA 3Gb/s)	
	3.5" Internal	-	
	2.5" Internal	-	
RAID		SATA RAID 0, 1, 5, 10 by Intel on-board RAID (Embedded RAID controller in PCH)	
Ethernet	Interface	10/100/1000 Mbps Gigabit Ethernet	
	Controller	Intel 82579LM + Intel 82574L	
Remote Management		Advantech Remote Monitoring Utility	
Front I/O Interface	USB	1 x USB2.0	
	USB	4 x USB2.0	
Rear I/O Interface	PS/2	2	
	COM	1	
	Display	1 x VGA	
	Parallel	-	
	RJ-45	2	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec/min	
Power Supply	Power Output Wattage	1+1 Redundant 650 W	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	5 (4cm / 26.5 CFM)	
	Air Filter	No	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN activity	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40° C (32 ~ 104° F)	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	10 ~ 85% @ 40° C	10 ~ 95% @ 40° C
Physical Characteristics	Dimension (W x H x D)	597 x 430 x 43.5 mm (23.5" x 16.9" x 1.7")	
	Weight		

ASMB-820 Performance 1U Server

Dimensions

Unit: mm



Ordering Information

Part Number	Description
ASMB8201201E-T	1U Server System With Single 8-core Xeon CPUs, PCIe Gen 3.0, 6 SATA Hard Drives and 650W RPS

System Contents

Items	Part Number	Quantity
System	N/A	1
Rail Kit	N/A	1
Driver CD	2066820I00	1
CPU cooler	1960057212N001	1

Front View



Rear View



Optional Parts

Items	Part Number
4-Port SAS RAID Card supporting RAID 0, 1, 5, 10, 50	96RC-SAS-4P-PE-LS
8-Port SAS RAID Card supporting RAID 0, 1, 5, 6, 10, 50 & 60	96RC-SAS-8P-PE-LS1
One mini SAS to four SATA's cable kit	96CB-SAS-SATA-4P1
7.1 Channel HD Audio Extension Module	PCA-AUDIO-HDA1E (Occupying 1 expansion slot)

*Note: When using above RAID cards, purchasing 96CB-SAS-SATA-4P1 cable is a MUST, 96RC-SAS-4P-PE-LS needs 1 piece and 96RC-SAS-8P-PE-LS1 needs 2 pieces.

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