HPC-6240
ASMB-622

2U 20" Short-Depth Edge Accelerator Server with Dual Intel® 3rd Gen Xeon® Scalable Processors, Supporting 8 Expansion Slots



Features

- Dual Intel® 3rd Gen Xeon® scalable processors
- DDR4 3200MHz RDIMM up to 1TB, support Intel optane persistent memory
- Four PCIe x16 slots support FH/10.5"L cards*
- Four PCIeX8 slots support FH/HL cards
- Four 2.5" hot-swappable SASII/SATAIII drive bays (Two can be NVMe in option)
- One onboard M.2 2280 B+M key
- 4 x GbE, 2 x USB3.2, 1 x Serial Port, 1 x VGA, 1 x IPMI
- 1200W 1+0 platinum non-redundancy power supply

* Support double-deck GPU Card with active fan

Specifications

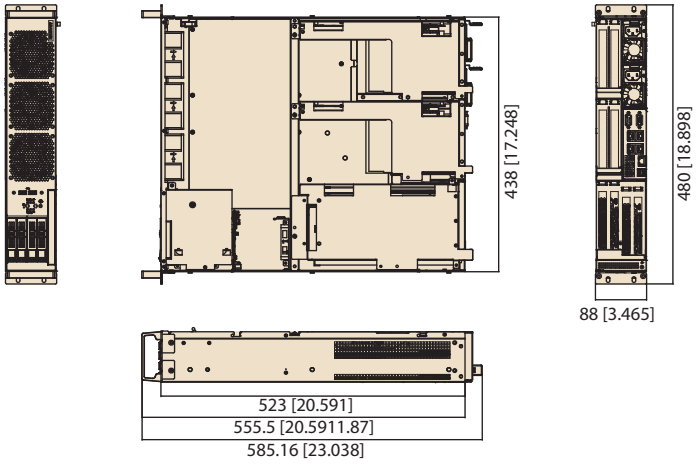
Processor System	Socket	Intel LGA 4189	
	CPU Type	3rd Gen Intel Xeon Scalable processors (TDP up to 165W)	
	Chipset	Intel C621A chipset	
Memory	Total slots	16 (1 DIMM per channel)	
	Capacity	Maximum 1TB ECC RDIMM	
	Memory type	DDR4 2666/2933/3200MHz RDIMM	
Graphics	Controller	Aspeed AST2500	
	VRAM	DDR4 4Gb	
Expansion Slot	RISER CAGE-1	SLOT1: FH/10.5"L PCIe X16 slot (Gen4 X16 link) SLOT2: FH/10.5"L PCIe X16 slot (Gen4 X16 link) SLOT3: FH/10.5"L PCIe X16 slot (Gen4 X16 link) SLOT4: FH/10.5"L PCIe X16 slot (Gen4 X16 link)	
	RISER CAGE-2	SLOT5: FH/HL PCIe X8 slot (Gen4 X8 link) SLOT6: FH/HL PCIe X8 slot (Gen3 X4 link)	
	RISER CAGE-3	SLOT7: FH/HL PCIe X8 slot (Gen4 X8 link) SLOT8: FH/HL PCIe X8 slot (Gen4 X8 link)	
Storage	2.5" (Hot-swap)	4	
	NVMe	2 support VROC (Gen4 X8 link, in option)	
	Ultra Slim ODD	1	
	M.2 (2280)	1 (SATA/PCIe Gen3 X4 link)	
Ethernet	Interface	4 x 10/100/1000 Mbps Gigabit Ethernet	
	Controller	1 x Intel I350	
Front I/O Interface	USB	2 x USB3.2	
Rear I/O Interface	USB	2 x USB3.2	
	Serial port	1	
	Display	1 x VGA	
	RJ-45	5 (4 x GbE + 1 dedicated NIC for IPMI)	
Internal connector	Type-A USB	2	
	Serial port header	1	
	SlimSAS	1	
	LPC	1	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec/min	
Power Supply	Output Range	1200W Platinum 1+0 non-redundancy Power Supply	
	Input Range	AC 100 ~ 240 V	
Cooling	System Fan	Three 80x38 high speed fan for CPU One 60x38 high speed fan for Cards	
	Air Filter	-	
Miscellaneous	LED Indicators	Power Status, LAN1-LAN4 Status, System information LED	
	Remote Management	Advantech Remote Monitoring Utility	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-40 ~ 70 °C (-40 ~ 156 °F)
	Humidity	10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C
	Vibration (5 ~ 500 Hz)	0.3 Grms	2 G
	Shock	10G (with 11ms duration, half since wave)	
Physical Characteristics	Dimension (W x H x D)	438 mm x 88 mm x 523 mm (17.24" x 3.46" x 20.59")	
	Weight (N.W. / G.W.)	8.5kg/10.5kg	

* ECC support please reference to CPU specification
* Some Xeon processors have no graphic support. Please check Intel specification for processor graphics availability

All product specifications are subject to change without notice.

Last updated: 6-Jun-2023

Dimensions



Unit: mm [inch]

Ordering Information

Part Number	Compatible Chassis	Memory	Chipset	GbE/ IPMI	Graphic
ASMB-622-00A1	HPC-6240	16 x DDR4 RDIMM	C621A	4/ 1(dedicated NIC)	AST 2500

Part Number	Compatible MB	CPU	CPU Cooler	GPU	Build-in PSU
HPC-6240-12ZX	ASMB-62 series	Dual CPU, up to 165W each	2U	1 x 350W with active fan, or 2 x 175W with active fan	1200W, 1+0 Single (non-Redundancy) PSU
HPC-6240-12RX					1200W 1+1 Redundant Power Supply

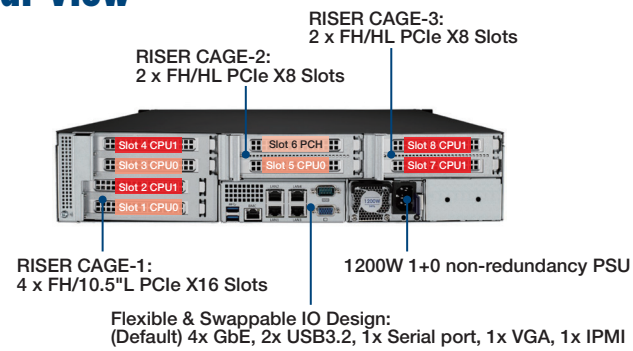
System Contents

Items	Advantech P/N	Quantity
Startup manual	2042B62200	1
Rackmount Kit (handle and Ear set)	1960082514T001	2
Extension bracket for 9.5" GPU Card	1960098660N000	1
Extension bracket for 10.5" GPU Card	1960097878N000	1

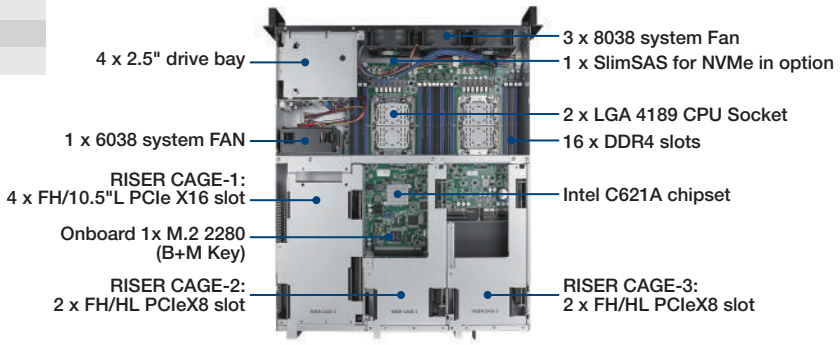
Optional Accessories

Items	Advantech P/N	Quantity
20" ~ 22" Slide Rail kit	968DE00012	1
TPM 2.0 module	PCA-TPM-00B1E	1
2-port NVMe drive kit	98R1310001E	1
LGA4189 narrow CPU cooler for 2U chassis	1970004902T000	2
GPU power cable for GPU card with PCIE 8P+8P power connector	1700032433-01	1
GPU power cable for GPU card with CPU 8P power connector	1700033606-01	1
ODD power cable	96CB-SATAPOWER-6P2	1
ODD data cable	1700021735-01	1
1200W Power MODULE	96PSRM-A1K2WCRPA	1
2U Front Bezel	98R16200010	1

Rear View



Inner View



Front View

