

Global Access, Local Support



Regional Service & Customization Centers

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Multi-processor Performance
Hot Swap & Redundancy
Storage Capacity

- 2U/4U Server Chassis
- Dual Xeon Serverboard



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About Server-grade IPC

Advantech Server-grade IPC is designed to give equipment developers high performance, efficient and redundant solutions for industrial environments and critical applications. This product line provides customers with a total solution and value-added services rather than just a regular server product.

As a leading embedded platform provider, Advantech has in-depth knowledge on vertical market, and has designed customized server-class products for specific purposes such as high-end applications in medical imaging, automated optical inspection (AOI), military simulators, and surveillance DVR/NVR that requires massive computing performance and storage capacity. Advantech has close relationships with developers throughout the world and offers a one-stop service to develop products and solutions that help enable an intelligent planet.

Advantech 3-5-7 Service



2U/4U High Performance Computing Chassis

High Performance Design for Industrial Environments

- Latest Intel 5500/5600 series CPU support
- Critical environmental and reliable testing criteria

Storage Capacity & Expandability

- Up to eight 3.5" drive bays to completely meet different SATA/SAS applications

Easy Maintenance with Hot Swap Design

- Hot-swappable HDD
- Hot-swappable FAN
- Hot-plug power supply



HPC-7280
2U Rackmount Chassis for EATX Serverboard with 8 Hot-swap Hard Drive Cages

- 2U rackmount chassis supports ATX/CEB/EATX motherboard
- Lockable front bezel prevents unauthorized access
- 800 W (1+1) redundant power supply
- Optional riser card supports 2 x PCI-X and 1 x PCIe x8



HPC-7480
4U Tower/Rackmount Chassis for EATX Serverboard with 8 Hot-swap Hard Drive Cages

- 4U rackmount chassis supports ATX/CEB/EATX motherboard
- Lockable front bezel prevents unauthorized access
- 665 W high efficiency single power supply
- Swappable fan module design facilitates maintenance



Dual Processor Serverboard

ASMB-310IR
Dual Xeon Industrial Serverboard
with SAS HDD Support

- Dual 1366 Socket Intel Xeon 5500/5600 CEB serverboard
- 6 ECC registered DIMM up to 48 GB
- 4 PCIe x8 (or 2 PCIe x16), 1 PCIe x4
- 6 SATA, Dual GbE
- IPMI, KVM over IP



Form Factor	CEB form factor		
Processor System	Socket	2 x socket 1366	
	CPU type	Intel Xeon 5600 series, Intel Xeon X5500 series (95 W), Intel Xeon E5500 series (80 W), Intel Xeon L5500 series (60 W/38 W)	
	Bus	QPI 4.8 / 5.86 / 6.4 GT/s	
Core Logic	Chipset	Intel 5520 chipset IOH, Intel ICH10R I/O controller	
Memory	Total slots	6 (3-channel per CPU, 3 DIMM per CPU)	
	Capacity	Maximum up to 48 GB (RDIMM), maximum up to 24 GB (UDIMM)	
	Memory type	DDR3 800/1066/1333 reg DIMM/unbuffered DIMM with ECC	
	Memory size	1 GB, 2 GB, 4 GB, 8GB	
Expansion Slots (SSI location #)	Total PCI/PCI-X/PCIe slots	6	
	Slot location 1	1 x PCIe x4 (Gen1 x4 link)	
	Slot location 2	1 x PCIe x4 (Gen2 x4 link)	
	Slot location 3	1 x PCIe x8 (Gen2 x8 link)	
	Slot location 4	1 x PCIe x16 (Gen2 x16 link) (Auto switch to x8 link if slot 3 is occupied)	
	Slot location 5	1 x PCIe x8 (Gen2 x8 link)	
	Slot location 6	1 x PCIe x16 (Gen2 x16 link) (Auto switch to x8 link if slot 5 is occupied)	
Graphics	Slot location 7	-	
Storage	VGA	Aspeed AST2050 64 MB	
	IDE controller	-	
Networking	SATA controller	Intel ICH10R: 6 SATA2 300 MB/s ports, Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)	
	SAS controller	LSI 1068E	
Onboard I/O Connectors	GbE LAN	1 x Intel 82574L + 1 x Intel 82567LM + dedicated LAN port for remote management function	
	Floppy connector	-	
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V + 8-pin SSI 12 V power connector	
	USB connector	3 (supports 5 USB port)	
	Fan header	5 x 4-pin	
	SMBus	-	
	Chassis intruder	1	
	Front LAN LED	2	
Rear I/O Connectors	Serial port header	1	
	External serial port	1	
	External USB port	6	
	VGA port	1	
	RJ-45	2	
	PS/2 KB/mouse	1	
Management Solution	Infiniband	-	
	Software	-	
	Out of band remote management	Yes	
Monitoring	CPU temperature	Yes	
	Monitoring for system	Yes	
Environment		Operating	Non-operating
	Temperature	0~ 50° C	-40 ~ 85° C
Physical Characteristics	Humidity	0% ~ 90%	5% ~ 95% (Non condensing)
	Dimensions	304.8 x 257.05 mm (12" x 10.12")	

Selection Guide



Model Name		HPC-7280		HPC-7480	
Processor Support		Supports dual, single Intel / AMD processors		Supports dual, single Intel / AMD processors	
Form Factor Support		2U chassis support for max. motherboard size - 12" x 13" EATX		4U chassis support for max. motherboard size - 12" x 13" EATX	
Expansion Slots		3 x Full-height, Full-length (with riser card) or 6 x low profile PCI expansion slots		7 x Full-height, Full-length PCI expansion slots	
Drive Bay	Slim ODD Bay	1		-	
	5.25" (front-accessible)	-		3	
	3.5" (front-accessible)	8		8	
	3.5" (internal)	-		-	
	2.5" (front-accessible)	-		-	
	2.5" (internal)	-		-	
Cooling	Chassis Fan	3 (8 cm / CFM)		4 (8 cm / CFM)	
	Air Filter	-		Yes	
System Monitoring		Chassis intrusion switch		Chassis intrusion switch	
Front I/O Interface	USB	1		2	
	PS/2	-		-	
Miscellaneous	LED Indicators	Power, HDD activity, LAN		Power, HDD activity, LAN	
	Rear Panel	-		-	
Environment	Temperature	Operating	Non-Operating	Operating	Non-Operating
		0 ~ 40° C (32 ~ 104° F)	-40 ~ 70° C (-40 ~ 158° F)	0 ~ 40° C (32 ~ 104° F)	-40 ~ 70° C (-40 ~ 158° F)
	Humidity	10 ~ 85% @ 40° C non-condensing	10 ~ 95% @ 40° C non-condensing	10 ~ 85% @ 40° C non-condensing	10 ~ 95% @ 40° C non-condensing
	Vibration (5~500 Hz)	1 Grms	2 G	1 Grms	2 G
Physical Characteristics	Shock	10 G (with 11 ms duration, half sine wave)	30 G	10 G (with 11 ms duration, half sine wave)	30 G
Physical Characteristics	Dimensions (W x H x D)	482.6 x 88 x 700 mm (2U)		452 x 178 x 648 mm (4U)	
	Weight	28 kg		29.94 kg	