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# Ruggedized Industrial Computing Platforms

Performance, System Compatibility, Longevity



- Industrial Motherboards
- PICMG Single Board Computers
- Passive Backplanes
- Industrial Computer Chassis
- High Performance Computing Systems



Trusted ePlatform Services

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## Performance Industrial Computing Platforms for Demanding Applications

Advantech is devoted to providing comprehensive yet highly integrated industrial platforms that deliver advanced features like dual-core processing, PCI Express technology, dual channel DDR-2 memory and enhanced system management mechanisms. Complete system solutions are designed with compatibility in mind. They match the performance of commercial PCs, and are much more attractive with tough industrial features like longevity, expandability, reliability and revision control.

### ■ Commitment to Product and Manufacturing Quality

As an ISO-9001 and ISO-14000 certified organization, Advantech abides by strict quality control standards applying to design, production and shipment processes.

### ■ 2-Year Warranty

As a commitment to quality, all Advantech standard products come with a 2-year warranty. Advantech has launched an extended warranty service with an additional two years to help customers extend the life of their investment.

### ■ Longevity and Reliability

A minimum 3 to 5 years product life cycle reduces costly maintenance and upgrade efforts. The typical Mean-Time-Before-Failure (MTBF) of each platform is 50,000 to 65,000 hours, approximately 6 to 7 years.

### ■ Strict Revision Control

Under strict revision control, engineering changes are kept to a minimum during a product's life cycle. The stability of our product offerings reduce the risk that results from multiple product changes.

### ■ Green Program

Advantech has committed to comply with the RoHS directive for reducing the environmental impact of hazardous substances. Advantech's "Green Program" helps protect the planet and makes it a better place for you and your kids.

<http://www.advantech.com.tw/support/RoHS/>



Protect your investment today by extending your warranty up to 2 years in parts and labor. Email to [ags@advantech.com](mailto:ags@advantech.com) to learn more about extended warranty protection and get your warranty free quote now!

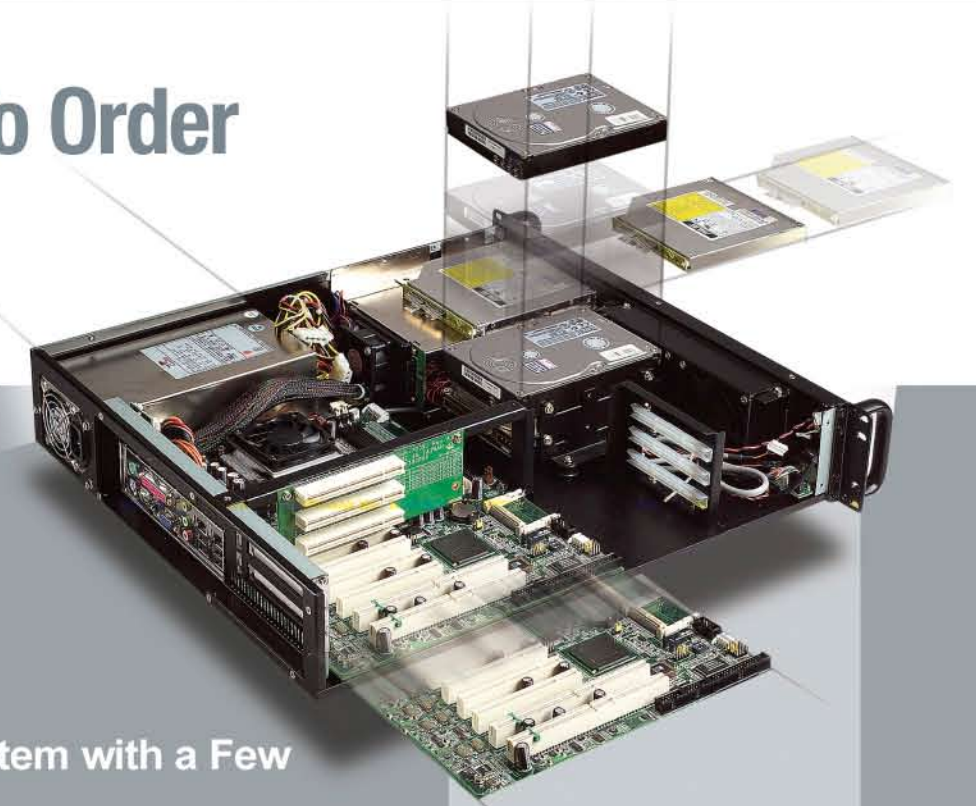
# Global Support Services

Over 20 years, Advantech has built a strong global network with four design & manufacturing centers in Asia, and service & logistics centers around the globe. With this well established network Advantech can develop, design and assemble cost-effective, top quality products that meet our customers' ever-changing needs and requirements efficiently.

## Global Presence with a Local Touch



# Configure To Order Services



## Build Your Own System with a Few Simple Clicks!

Advantech's core competence arises from providing an effective global integration service that benefits customers' time-to-market. Advantech's Configure to Order Service (CTOS) is an eBusiness service which delivers simple and comprehensive system configuration solutions with web-based configuration tools, manufacturing services and Advantech global services. This service eliminates the complexity of industrial PC configuration and makes industrial computing solutions more accessible than ever!

In addition, customers are free to configure their system solutions from a full range of standards-based products without compatibility concerns. These system configuration choices include: CPU speed, memory size, hard disk drive, CD-ROM drive, operating system, LAN cards, RAID system, and even third-party add-on cards. The systems are assembled and tested by Advantech's professional teams, and then shipped. Customers can enjoy the benefit of simply developing custom applications while saving time, effort and money on configuration and assembly.



## Global Manufacturing Capacity



**ATMC**  
 Taiwan Manufacturing Center  
 Land: 17,488 m<sup>2</sup>  
 Capability:  
 Small-volume Production  
 Board & System Products  
 ODM/OEM Projects  
 Engineering Sample Innovation Service  
 Specialized in Complicated Product Lines

**AKMC**  
 China Kunshan Manufacturing Center  
 Land: 66,667 m<sup>2</sup>  
 Capability:  
 Mid-to-high Volume Production  
 Board & System Products  
 ODM/OEM Projects  
 Focused on Mature Product Lines

**ADMC**  
 China DongGuan Manufacturing Center  
 Land: 7,000 m<sup>2</sup>  
 Capability:  
 Chassis Design & Production

## Advantech CTOS Features



- An intelligent online wizard makes system configuration easy as 1-2-3!
- A full range of industrial grade computing platforms for your selection
- Advantech global logistics services ensures on-time delivery
- Advantech regional service networks for post-sales support around-the-clock

Please visit Advantech CTOS portal for more detail.

<http://www.advantech.com/ctos>

## Ultra Compact and Highly Integrated Mini-ITX

Mini-ITX motherboards are designed with rich functionality and reliable performance in a small footprint that measures just 6.69" x 6.69". The highly integrated platforms feature low power consumption of less than 100 Watts and have one basic expansion slot. They're ideal platforms for fast-emerging markets in which compact size and power-consuming efficiency are required, such as information station kiosks, POS, lotteries, gaming systems and many others.



Yes: Supported -: Not Supported

Specifications	New Mainstream AIMB-250-B	New Mainstream AIMB-240	New Value AIMB-220	New Value AIMB-251
<b>Processor System</b>	Intel Pentium M Celeron M	Intel Pentium 4 Celeron	Onboard AMD Geode LX 800	Onboard Intel ULV Celeron 600 MHz
Max. Speed	1.8 GHz / 1.5 GHz	2.8 GHz / 2.8 GHz	500 MHz	600 MHz
Front Side Bus	400 MHz	400/533 MHz / 400 MHz	133 MHz	400 MHz
L2 Cache	2 MB / 1 MB	512 KB / 256 KB	128 KB L2 cache & 64 KB L1 cache	512 KB
Chipset	Intel 82855GME + ICH4	Intel 82852GME + ICH4	AMD Geode LX800 CS5536	Intel 82852GM + ICH4
BIOS	Award 4 Mb FWH	Award 4 Mb FWH	Award 4 Mb FWH	Award 4 Mb FWH
<b>Expansion Slot</b>	PCI 32-bit/33MHz, 1 slot	PCI 32-bit/33MHz, 1 slot	PCI 32-bit/33MHz, 1 slot	PCI 32-bit/33MHz, 1 slot
Mini-PCI	32-bit/33MHz, 1 slot	32-bit/33MHz, 1 slot	32-bit/33MHz, 1 slot	32-bit/33MHz, 1 slot
<b>Memory</b>	Technology DDR 266/333 SDRAM	Technology DDR 266/333 SDRAM	Technology DDR 333 SDRAM	Technology DDR 200/266 SDRAM
Max. Capacity	1 GB	1 GB	1 GB	1 GB
Socket	One 184-pin DIMM socket	One 184-pin DIMM socket	One 184-pin DIMM socket	One 184-pin DIMM socket
Controller	Chipset integrated	Chipset integrated	Chipset integrated	Chipset integrated
VRAM	Shared system memory up to 64 MB	Shared system memory up to 64 MB	Shared system memory up to 32 MB	Shared system memory up to 64 MB
<b>Graphic</b>	LVDS Single channel 18-bit/ Dual channel 36-bit	LVDS Single channel 18-bit/ Dual channel 36-bit	LVDS Single channel 18-bit	LVDS Single channel 18-bit/ Dual channel 36-bit
TV-Out	Yes	Yes	Yes	Yes
DVI	Yes	Yes	-	Yes
Dual Display	CRT + LVDS / DVI/ TV-Out + LVDS / CRT + DVI	CRT + LVDS / DVI/ TV-Out + LVDS / CRT + DVI	CRT + LVDS	CRT + LVDS / DVI/ TV-Out + LVDS / CRT + DVI
<b>Ethernet</b>	Interface 10/100/1000Base-T	Interface 10/100Base-T	Interface 10/100Base-T	Interface 10/100/1000Base-T
Controller	1 x Realtek LAN	2 x Realtek LAN	2 x Realtek LAN	1 x Realtek LAN
<b>EIDE</b>	Mode 2 x EIDE (Ultra DMA 100)	Mode EIDE (Ultra DMA 100)	Mode EIDE (Ultra DMA 66)	Mode 2 x EIDE (Ultra DMA 100)
Channel	2	2	1	2
<b>Rear I/O</b>	VGA 1	VGA 1	VGA 1	VGA 1
Ethernet 1	Ethernet 1	Ethernet 2	Ethernet 2	Ethernet 1
USB 2 (USB 2.0 ports)	USB 4 (USB 2.0 ports)	USB 4	USB 2 (USB 2.0 ports)	USB 2 (USB 2.0 ports)
Audio Mic-In, Line-In, Line-Out	Audio Mic-In, Line-In, Line-Out	Audio Mic-In, Line-In, Line-Out	Audio Mic-In, Line-In, Line-Out	Audio Mic-In, Line-In, Line-Out
Parallel 1	Serial 1 (RS-232/422/485)	Serial 1 (RS232)	Serial 1 (RS-232)	Serial 1 (RS-232/422/485)
PS/2 2 (1 x K/B and 1 x Mouse)	PS/2 2 (1 x K/B and 1 x Mouse)	PS/2 2 (1 x K/B and 1 x Mouse)	PS/2 2 (1 x K/B and 1 x Mouse)	PS/2 2 (1 x K/B and 1 x Mouse)
<b>Internal Connector</b>	LVDS & Inverter 1	LVDS & Inverter 1	LVDS & Inverter 1	LVDS & Inverter 1
TV-Out 1	DVI 1	DVI 1	DVI -	DVI 1
USB 4 (USB 2.0 ports)	Serial 3	Serial 5 (one is RS-232/422/485)	Serial 2	Serial 3
IDE 2	Compact Flash 1	Compact Flash 1	Compact Flash 1	Compact Flash 1
IrDA 115 kbps IrDA 1.0 compliant	IrDA 115 kbps IrDA 1.0 compliant	IrDA 115 kbps IrDA 1.0 compliant	IrDA 115 kbps IrDA 1.0 compliant	IrDA 115 kbps IrDA 1.0 compliant
FDD 1	DIO 16-bit General Purpose I/O for DI and DO	DIO 8-bit General Purpose I/O for DI and DO	DIO 16-bit General Purpose I/O for DI and DO	DIO 16-bit General Purpose I/O for DI and DO
<b>Watchdog Timer</b>	Output System reset	Output System reset	Output System reset	Output System reset
Interval Programmable, 1 ~ 255 sec	Interval Programmable, 1 ~ 255 sec	Interval Programmable, 1 ~ 255 sec	Interval Programmable, 1 ~ 255 sec	Interval Programmable, 1 ~ 255 sec

➔ For complete Chassis selections refer to Page 17-22.

## Best Price / Performance of MicroATX

These industrial MicroATX motherboards are only 9.6"x 9.6" and are ideal for space/cost sensitive applications where less than 4 slots are required. They enable the same high integration of an ATX but with smaller footprint that fills the gap between Mini-ITX and full-size ATX with balanced performance and expandability.



Yes: Supported -: Not Supported

Specifications	Low Power Consumption	New High Performance	Mainstream	Value
	AIMB-554	AIMB-562	AIMB-560	AIMB-542
<b>Processor System</b>	Intel Core 2 Duo Core Duo Core Solo Socket 479	Intel Core 2 Duo Pentium D/Pentium 4/Celeron D LGA 775	Intel Pentium 4/ Celeron D LGA775	Intel Pentium 4 Intel Celeron D LGA775
Max. Speed	2.16 GHz	2.16 GHz	3.8 GHz / 3.06 GHz	3.8 GHz / 3.06 GHz
L2 Cache	2 MB / 1 MB	2.66 GHz / 3.0 GHz (Dual-core)	2 MB / 256 KB	2 MB / 1 MB / 512 KB / 256 KB
Chipset	Intel 945GM+ICH7M-DH	Intel 945G+ICH7	Intel 915GV + ICH6	Intel 865G + ICH5
BIOS	Award 4 Mbit FWH	AMI 8 Mbit FWH	Award 4 Mbit FWH	AMI 4 Mbit FWH
Front Side Bus	533 / 667 MHz	533 / 800 / 1066	533 / 800 MHz	533 / 800 MHz
<b>Expansion Slot</b>	Graphic Expansion Slot 1 PCIe x16	Graphic Expansion Slot 1 PCIe x16	-	AGP 8X
PCI 2 (PCI 32-bit/33 MHz)	PCI 2 (PCI 32-bit/33 MHz)	PCI 3 (PCI 32-bit/33 MHz)	PCI 3 (PCI 32-bit/33 MHz)	PCI 3 (PCI 32-bit/33 MHz)
PCIe X4 1	PCIe X1 -	PCIe X1 1	PCIe X1 -	PCIe X1 -
<b>Graphic</b>	Controller Chipset integrated	Controller Chipset integrated	Controller Chipset integrated	Controller Chipset integrated
VRAM Shared system memory up to 224 MB	VRAM Shared system memory up to 224 MB	VRAM Shared system memory up to 224 MB	VRAM Shared system memory up to 128 MB	VRAM Shared system memory up to 64 MB
LCD -	LCD -	LCD -	LCD Optional	LCD -
<b>Ethernet</b>	Interface 10/100/1000Base-T	Interface 10/100/1000Base-T	Interface 10/100/1000Base-T	Interface 10/100Base-T
Controller 2 x Intel 82573	Controller 1 x Intel 82573	Controller 2 x Broadcom BCM5721	Controller 1 x Realtek RTL 8100C	Controller 1 x Realtek RTL 8100C
<b>Memory</b>	Technology Dual channel DDR2 533/667 SDRAM	Technology Dual channel DDR2 533/667 SDRAM	Technology Dual channel DDR2 400/533 SDRAM	Technology Dual channel DDR 333/400 SDRAM
Max. Capacity 4 GB	Max. Capacity 4 GB	Max. Capacity 2 GB	Max. Capacity 4 GB	Max. Capacity 4 GB
Socket 240-pin DIMM x 2	Socket 240-pin DIMM x 4	Socket 240-pin DIMM x 2	Socket 180-pin DIMM x 4	Socket 180-pin DIMM x 4
<b>SATA</b>	Max. Data Transfer Rate 150 MB/s	Max. Data Transfer Rate 300 MB/s	Max. Data Transfer Rate 150 MB/s	Max. Data Transfer Rate 150 MB/s
Channel 2	Channel 4	Channel 4	Channel 2	Channel 2
<b>EIDE</b>	Mode ATA 100/66/33	Mode ATA 100/66/33	Mode ATA 100/66/33	Mode ATA 100/66/33
Channel 1 (Max. two devices)	Channel 1 (Max. two devices)	Channel 1 (Max. two devices)	Channel 2 (Max. four devices)	Channel 2 (Max. four devices)
<b>I/O Interface</b>	VGA 1	VGA 1	VGA 1	VGA 1
USB Max. 8 (USB 2.0 compliant)	USB Max. 8 (USB 2.0 compliant)	USB Max. 8 (USB 2.0 compliant)	USB Max. 8 (USB 2.0 compliant)	USB Max. 8 (USB 2.0 compliant)
Serial 2 (1 of RS-232/422/485, 1 of RS-232)	Serial 2 (RS-232)	Serial 2 (RS-232)	Serial 1 (RS-232)	Serial 1 (RS-232)
Parallel 1 (SPP/EPP/ECP)	Parallel 1 (SPP/EPP/ECP)	Parallel 1 (SPP/EPP/ECP)	Parallel 1 (SPP/EPP/ECP)	Parallel 1 (SPP/EPP/ECP)
FDD 1	FDD 1	FDD 1	FDD 1	FDD 1
PS/2 2 (keyboard and mouse)	PS/2 2 (keyboard and mouse)	PS/2 2 (keyboard and mouse)	PS/2 2 (keyboard and mouse)	PS/2 2 (keyboard and mouse)
LAN 1 (for VG version) 2 (for G2 version)	LAN 1 (for VG version) -	LAN 1 (for VG version) 2 (for G2 version)	LAN 1 (for VE version)	LAN 1 (for VE version)
<b>OBS (Onboard Security) Hardware Monitor</b>	Yes	Yes	Yes	Yes
<b>Watchdog Time</b>	Audio Line-Out, Mic-In	Audio Mic-In, Line-In, Line-Out	Audio Line-Out, Mic-In	Audio Mic-In, Line-In, Line-Out
Output System reset	Output -	Output System reset	Output -	Output -
Interval Programmable, 1 ~ 255 sec/min	Interval -	Interval Programmable, 1 ~ 255 sec/min	Interval -	Interval -

➔ For complete Chassis selections refer to Page 17-22.

# Performance-rich Full-sized ATX Motherboards

Full-sized industrial ATX motherboards measure 12" x 9.6" and support up to 7 expansion slots. Advantech's ATX motherboards offer a wide range of computing capacities from low power Intel Pentium M based solutions to the latest dual core processors.



Yes: Supported -: Not Supported

Specifications	High Performance			Value				Low Power Consumption
	AIMB-762	AIMB-760	AIMB-744	AIMB-742	AIMB-740-B	AIMB-740-6CB1	AIMB-750	
<b>Processor System</b>	<b>CPU</b>	Intel Pentium D / Pentium 4 / Celeron D LGA775	Intel Pentium 4 / Celeron D LGA775	Intel Pentium 4 / Celeron D / Celeron Socket 478	Intel Pentium 4 / Celeron D / Celeron Socket 478	Intel Pentium 4 / Celeron D / Celeron Socket 478	Intel Pentium 4 / Celeron D / Celeron Socket 478	Intel Pentium M / Celeron M Socket 479
	<b>Max. Speed</b>	3.2 GHz / 3.8 GHz / 3.06 GHz	3.8 GHz / 3.06 GHz	3.4 GHz / 3.06 GHz / 256 KB / 128 KB	3.4 GHz / 3.06 GHz / 2.8 GHz	3.06 GHz / 3.06 GHz / 2.8 GHz	3.06 GHz / 3.06 GHz / 2.8 GHz / 2.6 GHz	2.1 GHz / 1.5 GHz
	<b>L2 Cache (Depends on CPU)</b>	4 MB/ 1 MB/ 256 KB	2 MB/ 1 MB/ 256 KB	1 MB/ 512 KB/ 256 KB/ 128 KB	1 MB/ 512 KB/ 256 KB/ 128 KB	512 KB/ 256 KB/ 128 KB	512 KB/ 256 KB/ 128 KB	2 MB/ 1 MB/ 512 KB
	<b>Chipset</b>	Intel 945G + ICH7R	Intel 915GV + ICH6	Intel 875P + 6300ESB	Intel 865G + ICH5	Intel 845GV + ICH4	Intel 845GV + ICH4	Intel 855GME + 6300ESB
	<b>BIOS</b>	Award 4 Mbit FWH	Award 4 Mbit FWH	Award 4 Mbit FWH	Award 4 Mbit FWH	Award 4 Mbit FWH	Award 4 Mbit FWH	Award 4 Mbit FWH
<b>Expansion Slot</b>	<b>FSB</b>	533/800 MHz	533/800 MHz	400/533/800 MHz	400/533 MHz	400/533 MHz	400/533 MHz	400 MHz
	<b>Graphic Expansion Slot</b>	1 (PCI-E 16x)	-	1 (AGP 8x)	1 (AGP 8x)	-	-	1 (AGP 4X)
	<b>PCI</b>	1 (PCIe 4x) 5 (PCI 32-bit/33 MHz)	1 (PCIe 1x) 5 (PCI 32-bit/33 MHz)	2 (PCI-X 64-bit/66 MHz) 4 (PCI 32-bit/33 MHz)	5 (32-bit/33 MHz)	5 (32-bit/33 MHz)	5 (32-bit/33 MHz)	2 (PCI-X 64-bit/66 MHz) 4 (PCI 32-bit/33 MHz)
<b>Graphic</b>	<b>ISA</b>	-	-	-	2	2	-	-
	<b>Controller</b>	Chipset integrated	Chipset integrated	-	Chipset integrated	Chipset integrated	Chipset integrated	Chipset integrated
	<b>VRAM</b>	Share system memory up to 224 MB	Share system memory up to 128 MB	-	Shared system memory up to 64 MB	Shared system memory up to 64 MB	Shared system memory up to 64 MB	Shared system memory up to 64 MB
	<b>LCD</b>	-	-	-	-	-	-	Single channel 18-bit/ Dual channel 36-
<b>Ethernet</b>	<b>Interface</b>	10/100/1000Base-T	10/100/1000Base-T	10/100/1000Base-T	10/100/1000Base-T or 10/100Base-T	10/100/1000Base-T or 10/100Base-T	10/100Base-T	10/100/1000Base-T or 10/100Base-T
	<b>Controller</b>	2 x Intel 82573V	2 x Broadcom BCM5721	2 x Intel 82547/82541	Intel 82547/82541 & Intel 82562/82551	Intel 82541 & Intel 82562/82551	1 x Intel 82562	Intel 82541 & Intel 82551
<b>Memory</b>	<b>Technology</b>	Dual channel DDR2 533/667 SDRAM	Dual channel DDR2 400/533 SDRAM	Dual channel DDR 266/333/400 SDRAM support ECC	Dual channel DDR 266/333/400 SDRAM	Single Channel DDR 200/266/333 SDRAM	Single Channel DDR 200/266/333 SDRAM	Single channel DDR 200/266/333 SDRAM support ECC
	<b>Max. Capacity</b>	4 GB	4 GB	4 GB	4 GB	2 GB	2 GB	2 GB
	<b>Socket</b>	240-pin DIMM x 4	240-pin DIMM x 4	184-pin DIMM x 4	184-pin DIMM x 4	184-pin DIMM x 2	184-pin DIMM x 2	184-pin DIMM x 2
<b>SATA</b>	<b>Max. Data Transfer Rate</b>	300 MB/s (SATA II)	150 MB/s	150 MB/s	150 MB/s	-	-	150 MB/s
	<b>Channel</b>	4	4	2	2	-	-	2
<b>EIDE</b>	<b>Mode</b>	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33
	<b>Channel</b>	1 (Max. two devices)	1 (Max. two devices)	2 (Max. for devices)	2 (Max. for devices)	2 (Max. for devices)	2 (Max. for devices)	2 (Max. for devices)
<b>I/O Interface</b>	<b>VGA</b>	1	1	-	1	1	1	1
	<b>USB</b>	Max. 8 (USB 2.0 compliant)	Max. 8 (USB 2.0 compliant)	Max. 4 (USB 2.0 compliant)	Max. 8 (USB 2.0 compliant)	Max. 6 (USB 2.0 compliant)	Max. 6 (USB 2.0 compliant)	Max. 4 (USB 2.0 compliant)
	<b>Serial</b>	2 (1 of RS-232/422/485, 1 of RS-232)	2 (RS-232)	4 (RS-232)	2 (RS-232)	2 (RS-232)	6 (2 of RS-232/422/485, 4 of RS-232)	4 (RS-232)
	<b>Parallel</b>	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)
	<b>FDD</b>	1	1	1	1	1	1	1
	<b>PS/2</b>	2 (keyboard and mouse)	2 (keyboard and mouse)	2 (keyboard and mouse)	2 (keyboard and mouse)	2 (keyboard and mouse)	2 (keyboard and mouse)	2 (keyboard and mouse)
	<b>LAN</b>	1 (for VG version) 2 (for G2 version)	1 (for VG version) 2 (for G2 version)	1 (for G version) 2 (for G2 version)	1 (for VG versions) 2 (for G2 versions)	1 (for VE, VG versions) 2 (for E2 version)	1 (for VE version)	1 (for VE, VG versions) 2 (for E2, G2 versions)
	<b>OBS (Onboard Security) Hardware Monitor</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	<b>Audio</b>	Line-Out, Mic-In	Line-Out, Mic-In	Line-Out, Mic-In	Line-Out, Mic-In	Line-Out, Mic-In	Line-Out, Mic-In	Line-Out, Mic-In
	<b>Watchdog Timer</b>	<b>Output</b>	System reset	System reset	System reset	Interrupt, system reset	Interrupt, system reset	System reset
	<b>Interval</b>	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min
<b>Miscellaneous</b>	<b>Advantech SNMP/HTTP System Manager (SNMP-1000-B)</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	<b>Solid State Disk</b>	-	-	-	Compact Flash socket (optional)	Compact Flash socket (optional)	Compact Flash socket (optional)	Compact Flash socket (optional)

➔ For complete Chassis selections refer to Page 17-22.

## High Performance Computing Systems

These series of high performance computing platforms deliver outstanding performance, high reliability and complete scalability in a rack-optimized enclosure. Designed with an enterprise-class chipset and cutting edge technology, all these platforms support dual processors and buffered memory to maximize computing productivity. They give customers the ideal solution for performance-demanding applications.



Yes: Supported - : Not Supported

Specifications	<b>New</b> HPC-1420-ISSE	<b>New</b> HPC-2820-ISSE	
<b>Processor System</b>	<b>CPU</b>	Intel 5000/5100/5300 family Xeon Processor	Intel 5000/5100/5300 family Xeon Processor
	<b>Max. Speed</b>	3.0 GHz	3.0 GHz
	<b>Front Side Bus</b>	667/1066/1333 MHz	667/1066/1333 MHz
	<b>L2 Cache</b>	2 x 2 MB or 4 MB L2 cache	2 x 2 MB or 4 MB L2 cache
	<b>Chipset</b>	Intel 5000P MCH Intel 6321 ICH Intel 6702 PXH	Intel 5000P MCH Intel 6321 ICH Intel 6702 PXH
<b>Expansion Slot (via riser card)</b>	<b>PCI</b>	1 x Full-Height / Half-Length 64-bit PCI-X	2 x Full-Height / Full-Length 64-bit PCI-X
	<b>PCIe</b>	1 x Low Profile PCI Express x8 slot	1 x Full-Height / Full-Length PCI Express x8 slot 1
<b>Memory</b>	<b>Technology</b>	Four Channel ECC Reg. DDR2 533/667 FBD	Four Channel ECC Reg. DDR2 533/667 FBD
	<b>Max. Capacity</b>	Maximum up to 48GB	Maximum up to 48GB
	<b>Socket</b>	12	12
<b>Graphic</b>	<b>Controller</b>	ATI ES1000 VGA Controller	ATI ES1000 VGA Controller
	<b>VRAM</b>	16 MB DDR VRAM	16 MB DDR VRAM
<b>Storage</b>	<b>SAS Controller</b>	LSI 1068 PCI-X 8 ports SAS controller. Supports RAID 0, 1, 1E and RAID 5, 6 (optional ZCR)	LSI 1068 PCI-X 8 ports SAS controller. Supports RAID 0, 1, 1E and RAID 5, 6 (optional ZCR)
	<b>HDD Bays</b>	Supports 4 x Hotswap SAS / SATA2 HDDs	Supports 8 x Hotswap SAS / SATA2 HDDs
	<b>Optical Drive</b>	Slim Type DVD-ROM	Slim Type DVD-ROM
<b>Ethernet</b>	<b>Interface</b>	10/100/1000Base-T	10/100/1000Base-T
	<b>Controller</b>	Intel 82563EB PCIe Dual Ports Gb LANs	Intel 82563EB PCIe Dual Ports Gb LANs
	<b>Connector</b>	2 x RJ-45	2 x RJ-45
<b>I/O connectors</b>	<b>Serial Port</b>	1	1
	<b>RJ-45</b>	2	2
	<b>USB</b>	4 x USB 2.0 ports (2 x Front, 2 x Rear)	4 x USB 2.0 ports (2 x Front, 2 x Rear)
	<b>VGA</b>	1	1
	<b>PS/2 Keyboard</b>	1	1
	<b>PS/2 Mouse</b>	1	1
<b>Power Supply</b>	<b>Power Supply</b>	700 W Single ATX	750 W Single ATX
<b>Environment</b>	<b>Temperature</b>	Operation temperature: 10° ~ 35° C Non operation temperature: -40° ~ 70° C	Operation temperature: 10° ~ 35° C Non operation temperature: -40° ~ 70° C
	<b>Humidity</b>	Non operation humidity: 20% ~ 90% ( Non condensing)	Non operation humidity: 20% ~ 90% ( Non condensing)
<b>Physical Characteristics</b>	<b>Dimensions</b>	686 mm x 44 mm x 43.4 mm (27" x 1.7" x 1.7")	732 mm x 448 mm x 87.7 mm (28.8" x 17.6" x 3.5")
	<b>Net Weight</b>	15 Kg	19.7 Kg

## System Host Board

Complying with System Host Board Express (SHB Express; also called PICMG 1.3) standards, these SHBs feature the latest PCI Express technology, offering scalable I/O bandwidth of more than 10 GB/s. They maintain compatibility with PCIe, PCI-X, PCI and ISA, and allow customers to leverage commercial I/O cards. Advantech's SHBs empower system designers to create a new generation of servers, workstations and industrial platforms.



Yes: Supported - : Not Supported

Specification	<b>New</b> Server-grade PCE-7210	<b>New</b> Mainstream PCE-5120	
<b>Processor System</b>	<b>CPU</b>	Dual Intel Xeon / LV Xeon processors	Intel Core 2 Duo / Pentium D / Pentium 4 / Celeron D (LGA 775)
	<b>Max. Speed</b>	3.6 GHz	2.66 GHz / 3.2 GHz (Dual Core) / 3.8 GHz / 3.06 GHz
	<b>L2 Cache</b>	2 MB	4 MB / 1 MB x 2, 2 MB x 2 / 1 MB, 2 MB / 512 KB, 256 KB
	<b>Chipset</b>	Intel E7520+6300ESB	Intel 945G + ICH7R
	<b>BIOS</b>	Award 4 Mb FWH	Award 4 Mb FWH
<b>Bus</b>	<b>FSB</b>	800 MHz	1066 / 800 / 533 MHz
	<b>PCIe</b>	Two x8 & One x4 to backplane	One x16 & four x1 to backplane
	<b>PCI</b>	32bit/66 MHz PCI-X	32 bit/33 MHz PCI
<b>Graphic</b>	<b>Controller</b>	ATI RADEON 7000M (PCI 32 bit/33 MHz)	Chipset integrated
	<b>VRAM</b>	16 MB frame buffer memory	Shared with 224 MB system memory
<b>Ethernet</b>	<b>Interface</b>	10/100/1000Base-T	10/100/1000Base-T
	<b>Controller</b>	2 x Broadcom 5715C	2 x Intel 82573V
<b>Memory</b>	<b>Technology</b>	Dual-channel DDR2 400 MHz (ECC Registered DIMMs)	Dual-channel DDR2 533/667 MHz DIMMs
	<b>Max. Capacity</b>	8 GB	4 GB
	<b>Socket</b>	240-pin DIMM x 4	240-pin DIMM x 4
<b>SATA</b>	<b>Max. Data Transfer Rate</b>	150 MB/Sec.	300 MB/Sec. (SATA 2)
	<b>Channel</b>	2	4
<b>EIDE</b>	<b>RAID</b>	0, 1	0, 1, 5, 10
	<b>Mode</b>	ATA 100/66/33	ATA 100/66/33
<b>I/O Interface</b>	<b>Channel</b>	2 (Max. four devices)	1 (Max. two devices)
	<b>USB</b>	Max. 4 (USB 2.0 compliant) to Backplane	Max. 8 (USB 2.0 compliant) 4 on SHB by Pin Header, 4 to Backplane
	<b>Serial</b>	3 (RS-232) with Pin Header	4 (RS-232) with Pin Header
	<b>Parallel</b>	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)
	<b>FDD</b>	1	1
	<b>PS/2</b>	1	1
	<b>LAN</b>	2	1 (for VG versions) 2 (for G2 versions)
	<b>OBS (Onboard Security) Hardware Monitor</b>	Yes	Yes
<b>Watchdog Timer</b>	<b>Output</b>	System reset	System reset
	<b>Interval</b>	Programmable, 1, 2, 4, 8, ..., 256 sec.	Programmable, 1, 2, 4, 8, ..., 256 sec.
<b>Miscellaneous</b>	<b>Audio (Requires PCA-AUDIO-00A1E)</b>	Yes	Yes
	<b>Advantech SNMP/HTTP System Manager (SNMP-1000-B)</b>	Yes	Yes
	<b>IPMI</b>	Optional	Optional
<b>Solid State Disk</b>	-	Optional (Compact Flash Type I/II)	

➔ For complete PICMG 1.3 backplane selections refer to Page 11-12.

➔ For complete Chassis selections refer to page 17-22.

# SHB Express Backplanes

Advantech's SHB Express (PICMG 1.3) design policy provides clear solutions that ensure system compatibility. Customers can easily recognize specific solutions according to their product class. Customers requiring server-grade solutions can choose the "PCE-7000" series. For excellent graphics performance, customers can select the "PCE-5000" series. Advantech's naming policy offers clear purchasing guidelines that help prevent incompatible SHB and SHB Express backplane combinations.

## PICMG 1.3 vs PICMG 1.0

	SHB Express	PICMG 1.0
Interface	PCI Express (x16 + x4) + PCI-X (32-bit/66 MHz)	ISA + PCI (32/64-bit)
I/O Bandwidth	10,266 MB/s	538 MB/s

## New Server-grade SHB Express Backplanes

Yes: Supported - : Not Supported

Segment	Backplanes Model name	Slots Per Segment								2U Chassis		4U Chassis			4U Chassis						5U Chassis	7U Chassis	Wallmount Chassis						
		PCIe				PCI-X				ACP-2000 6-slot	IPC-602 6-slot	IPC-610-L 15-slot	IPC-610-H 15-slot	IPC-610-F 15-slot	IPC-611 15-slot	IPC-630 15-slot	ACP-4010 15-slot	ACP-4000 15-slot	ACP-4320 15-slot	ACP-4362 15-slot	IPC-623 20-slot	ACP-5260 20-slot	ACP-7000 20-slot	IPC-6606 6-slot	IPC-6608 8-slot	IPC-6908 8-slot			
		x16	x8	x4	x1	64/66	64/100	64/133	PCI																				
1	PCE-7B06V-04A1E	-	1	-	-	-	-	-	4	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PCE-7B06V-30A1E	-	2	-	-	-	2	1	-	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PCE-7B06-04A1E	-	1	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-
	PCE-7B08-04A1E	-	2	1	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	-
	PCE-7B13-64B1E	-	2	-	-	4	2	-	4	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
2	PCE-7B13D-04A1E	-	1, 2	-	-	-	-	-	4	-	-	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	PCE-7B19-88A1E	-	2	-	-	8	-	-	8	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	-	-	-	-	-	-
4	PCE-7B16Q-02A1E	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	-	-	-	-	-	-

## New Mainstream SHB Express Backplanes

Yes: Supported - : Not Supported

Segment	Backplanes Model name	Slots Per Segment								2U Chassis		4U Chassis			4U Chassis						5U Chassis	7U Chassis	Wallmount Chassis						
		PCIe				PCI-X				ACP-2000 6-slot	IPC-602 6-slot	IPC-610-L 15-slot	IPC-610-H 15-slot	IPC-610-F 15-slot	IPC-611 15-slot	IPC-630 15-slot	ACP-4010 15-slot	ACP-4000 15-slot	ACP-4320 15-slot	ACP-4362 15-slot	IPC-623 20-slot	ACP-5260 20-slot	ACP-7000 20-slot	IPC-6606 6-slot	IPC-6608 8-slot	IPC-6908 8-slot			
		x16	x8	x4	x1	64/66	64/100	64/133	PCI																				
1	PCE-5B06V-04A1E	1	-	-	-	-	-	-	4	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PCE-5B05V-30A1E	1	-	-	-	-	2	1	-	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PCE-5B06-04A1E	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-
	PCE-5B06-00A1E	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-
	PCE-5B07-04A1E	1	-	1	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes
	PCE-5B12-64B1E	1	-	-	-	4	2	-	4	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-
	PCE-5B13-08A1E	1	-	-	3	-	-	-	8	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-
2	PCE-5B12D-04A1E	1	-	-	-	-	-	-	4	-	-	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	PCE-5B18-88A1E	1	-	-	-	8	-	-	8	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	-	-	-	-	-	-
4	PCE-5B16Q-02A1E	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	-	-	-	-	-	-

➔ For complete PICMG 1.3 SHB selections refer to Page 10.

➔ For complete Chassis selections refer to page 17-22.



PCE-7B08-04A1E



PCE-7B13-64A1E



PCE-7B16Q-02A1E



PCE-5B06-04A1E



PCE-5B07-04A1E



PCE-5B12-64A1E



PCE-5B16Q-02A1E

# PCI/ISA Single Board Computers

Advantech's full range of PCI/ISA (PICMG 1.0) single board computers (SBCs) feature strong expansion capabilities and are amongst the industry's most comprehensive. Complying with PICMG 1.0 standards, these full-sized SBCs offer complete backplane support and are the most flexible and expansible solutions for industrial slot-hungry applications.



Yes: Supported -: Not Supported

Specifications		Low Power Consumption	Server-grade	High Performance	Mainstream		Value	Fanless	
		PCA-6189	PCA-6289	PCA-6190	PCA-6187	PCA-6186-B	PCA-6003	PCA-6178-C	PCA-6002-B
Processor System	CPU	Intel Pentium M / Celeron M Socket 479	Dual Intel Xeon LV / Xeon	Intel Pentium 4 / Celeron D LGA775	Intel Pentium 4 / Celeron D / Celeron Socket 478	Intel Pentium 4 / Celeron D / Celeron Socket 478	Intel Pentium III / Celeron (Tualatin) Socket 370	Intel Pentium III / Celeron Socket 370	Intel Celeron (Ultra Low Voltage)
	Max. Speed	2.1 / 1.5 GHz	3.06 GHz	3.8 / 3.06 GHz	3.4 / 3.06 / 2.8 GHz	3.06 / 3.06 / 2.8 GHz	1.4 GHz / 1.3 GHz	1.0 GHz / 1.1 GHz	650 / 400 MHz
	Max. L2 Cache	1 MB, 2 MB / 512 KB, 1 MB	512 KB	1MB, 2MB / 256 KB	256 KB, 512 KB, 1 MB / 256 KB / 128 KB, 256 KB	256 KB, 512 KB / 256 KB / 128 KB, 256 KB	256 KB, 512 KB / 128 KB, 256 KB	256 KB / 128 KB	256 KB
	Chipset	Intel 855GME + 6300ESB	Intel E7501 + ICH3-S + P64H2	Intel 915GV + ICH6	Intel 865G + ICH5	Intel 845GV + ICH4	VIA Apollo PLE 133T(VT8601 + 686B)	Intel 440BX	Intel 815E + ICH2
Bus	BIOS	Award 4 Mbit FWH	Award 8 Mbit FWH	Award 8 Mbit FWH	Award 4 Mbit FWH	Award 4 Mb FWH	Award 2 Mbit FWH	Award 2 Mbit FWH	Award 4 Mbit FWH
	FSB	400 MHz	400/533 MHz	533/800 MHz	400/533/800 MHz	400/533 MHz	60/100/133 MHz	66/100 MHz	100 MHz
	PCI	64-bit/33/66 MHz PCI / 66 MHz PCI-X	64-bit/66 MHz PCI	PCI 32-bit/33 MHz; 2 PCI-E x1 for LAN chip	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz
	ISA	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive) optional	HISA (ISA high drive)	HISA (ISA high drive)
Graphic	Controller	Chipset integrated	ATI Rage XL	Chipset integrated	Chipset integrated	Chipset integrated	Chipset integrated	ATI RAGE XL (AGP 2X)	Chipset integrated
	VRAM	Shared system memory up to 64 MB	8 MB frame buffer memory	Shared system memory up to 128 MB	Shared system memory up to 64 MB	Shared system memory up to 8-64 MB	Shared system memory up to 8 MB	8 MB	Shared system memory up to 11 MB
	LCD	LVDS/DVI	-	DVI	-	-	Optional 18-bit TFT LCD support	-	-
Ethernet	Interface	10/100Base-T or 10/100/1000Base-T	10/100/1000Base-T	10/100/1000Base-T	10/100Base-T or 10/100/1000Base-T	10/100Base-T or 10/100/1000Base-T	10/100Base-T	10/100Base-T	10/100Base-T
	Controller	2 x Intel 82541/82551	2 x Intel 82545EM	2 x Broadcom BCM5721	Intel 82547/82541 & Intel 82562	Intel 82562/82551 & Intel 82541	1 x Realtek 8139C	1 x Intel 82551	2 x Intel 82562/82551
Memory	Technology	DDR 200/266/333 with ECC support	Dual channel DDR 200/266	Dual channel DDR 2 400/533	Dual channel DDR 266/333/400 SDRAM	DDR 200/266/333	PC-133/100	PC-100 with ECC support	PC-133/100
	Max. Capacity	2 GB	8 GB	4 GB	4 GB	2 GB	1 GB	768 MB	512 MB
	Socket	184-pin DIMM x 2	184-pin x 4	240-pin x 4	184-pin DIMM x 4	184-pin DIMM x 2	168-pin DIMM x 2	168-pin DIMM x 2	168-pin DIMM x 2
SATA	Max. Data Transfer Rate	150 MB/s	-	150 MB/s	150 MB/s	-	-	-	-
	Channel	2	-	4	2	ATA 100/66/33	ATA 100/66/33	ATA 33	ATA 100/66/33
EIDE	Mode	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)
	Channel	2 (Max. four devices)	2 (Max. four devices)	1 (Max. two devices)	2 (Max. for devices)	6 (USB 2.0 compliant)	2 (USB 1.1 compliant)	2 (USB 1.1 compliant)	4 (USB 1.1 compliant)
I/O Interface	USB	4 (USB 2.0 compliant)	4 (USB 1.1)	8 (USB 2.0)	6 (USB 2.0 compliant)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)
	Serial	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)
	Parallel	1 (SPP/EPP/ECP)	1 (EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1	1	1	1
	FDD	1	1	1	1	1 (for LV, VE, VG versions)	1	1	1 (for VE version)
	PS/2	1	1	1	1	2 (for E2 versions)	1	1	2 (for E2 version)
	LAN	1 (for VE, VG versions) 2 (for G2, F versions)	2	1 (for VG version) 2 (for G2, version)	1 (for VE, VG versions) 2 (for G2, versions)	1 (for VE, versions) 2 (for E2, G2, versions)	1 (for VE version) 2 (for E2 version)	1 (for VE, versions)	1 (for VE versions) 2 (for E2 versions)
	OBS (Onboard Security) Hardware Monitor	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes
	Watchdog Timer	Output	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset
Miscellaneous	Interval	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec.	Programmable, 1 ~ 255 sec.	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 63 sec.	Programmable, 1 ~ 63 sec.	Programmable, 1 ~ 255 sec./min
	Audio (requires PCA AUDIO-00A1E)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
	Advantech SNMP/HTTP System Manager (SNMP-1000-B)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Solid State Disk	Compact Flash socket (Compact Flash Type I/II)	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	M-systems' DOC 2000 (144 MB)	Compact Flash socket (Compact Flash Type I/II)

➔ For complete PICMG 1.0 backplane selections refer to Page 15-16.

➔ For complete Chassis selections refer to page 17-22.





# Industrial Grade Rackmount Chassis

Advantech offers a full range of 19" rack mount chassis ranging from 1U to 7U. These rugged and well-cooled rackmount chassis support 3-20 slot passive backplanes or ATX industrial motherboards depending on the requirements. These industrial grade chassis are designed with industrial features such as an anti-vibration hold-down bar, shockproof disk drive bays and lockable doors to secure the unit from unauthorized access. Alarm monitoring and notification options are available with Advantech's SNMP module.



Yes: Supported -: Not Supported

Model Names		1U Chassis		2U Chassis		2U Chassis	4U Chassis			
		ACP-1000	ACP-2010MB/ACP-2000MB	ACP-2320MB	ACP-2000	IPC-603MB	IPC-610-H	IPC-610-L	IPC-611	IPC-510
Drive Bay	Slim CD-ROM	1	-	1	1	1	-	-	-	-
	3.5"	Front	1	1	2 (SATA)	2	-	1	1	1
		Internal	1	2	2	-	1	-	-	1
	5.25"	-	1	-	-	-	3	3	3	3
Front I/O	USB	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes
	PS/2	Yes	Yes	Yes	Yes	-	Yes	-	-	Yes
Cooling	No. of Fans	4	2	3	2	2	2	1	1	1
	CFM	10	47	2 x 47 1 x 28	47	47	85	85	85	85
Power	AC	200 WATX / PFC	300 WATX / PFC *ACP-2010MB: 400 WATX / PFC	300 WATX / PFC 400 WATX / PFC	300 WATX / PFC	300 WATX / PFC	300 WATX / PFC 400 WATX / PFC	250 WATX / PFC 300 WATX / PFC	250 WATX / PFC 300 WATX / PFC	250 WATX / PFC 300 WATX / PFC
	AC Redundant	-	-	-	300 W 1 + 1	-	300 W 1+1 400 W 1+1	-	-	-
	DC	-	-	-	300 WATX	-	300 WATX	-	-	-
No of slots/No of full-sized cards		3/3	3/3	3/3	6/6	3/0	14/11	14/11	14/11	14/8
System Fault Detection		Yes (Motherboard Version)	Yes	Yes	Yes	-	-	-	-	-
Dimensions (W x H x D)	(mm)	SBC: 480 x 44 x 497 Motherboard: 480 x 44 x 450	ACP-2010MB: 482 x 88 x 480 ACP-2000MB: 482 x 88 x 450	482 x 88 x 480	482 x 88 x 450	482 x 88 x 310	482 x 177 x 478	482 x 177 x 478	482 x 177 x 478	482 x 177 x 450
	(inch)	SBC: 19 x 1.7 x 19.6 Motherboard: 19 x 1.7 x 17.7	ACP-2010MB: 19 x 3.5 x 18.9 ACP-2000MB: 19 x 3.5 x 17.7	19 x 3.46 x 18.9	19 x 3.5 x 17.7	19 x 3.46 x 12.2	19 x 7 x 18.8	19 x 7 x 18.8	19 x 7 x 18.8	19 x 7 x 17.7
Weight	(kg)	SBC: 8.8 Motherboards: 8.0	ACP-2010MB: 13 ACP-2000MB: 12.5	13.5	13.5	8	17	16.5	16.5	12.5
	(lb)	SBC: 19.4 Motherboards: 17.6	ACP-2010MB: 28.6 ACP-2000MB: 27.5	29.7	29.7	17.6	37.4	36.3	36.3	27.5

- ☛ For complete Motherboard selections refer to Page 6-8
- ☛ For complete SHB selections refer to Page 10; SHB Express backplane selections refer to Page 11-12
- ☛ For complete SBC selections refer to Page 13-14; PCI/ISA PICMG 1.0 backplane selections refer to Page 15-16

# Industrial Grade Rackmount Chassis

Designed for mission-critical, non-stop applications, most chassis can be equipped with a redundant power supply and feature state of the art industrial design, modularity, hot-swappable accessories, storage options, redundant cooling systems, and remote system monitoring. All Advantech industrial grade chassis are CE and UL approved.



Yes: Supported    No: Not Supported

Model Names		4U Chassis				4U Chassis		5U Chassis	6U Chassis	7U Chassis
		<b>New</b> IPC-630	ACP-4000	<b>New</b> ACP-4010	ACP-4320	<b>New</b> ACP-4362	IPC-623	ACP-5260	IPC-622	ACP-7000
Drive Bay	Slim CD-ROM	-	-	-	-	1	-	1	-	1
	3.5"	Front	1	1	1	2 (SATA) + 1	6 (SATA) + 1	1	6 (SCSI) + 1	6 (SCSI) + 1
		Internal	1	-	1	-	-	1	-	2
	5.25"	3	3	2	2	-	3	1	4	2
Front I/O	USB	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes
	PS/2	-	Yes	-	-	-	-	Yes	-	Yes
Cooling	No. of Fans	1	2	2	2	3	3	7	4	6
	CFM	114	85	85	1 x 114 1 x 28	1 x 114 2 x 47	114	2 x 47 3 x 114 2 x 25	53	4 x 58 2 x 47
Power	AC	300 WATX / PFC 400 WATX / PFC	300 WATX / PFC 400 WATX / PFC	300 WATX / PFC 400 WATX / PFC	300 WATX / PFC 400 WATX / PFC	400 WATX / PFC 500 WATX / PFC	400 WATX / PFC 500 WATX / PFC	-	400 WATX / PFC 500 WATX / PFC	-
	AC Redundant	300 W 1+1 400 W 1+1	300 W 1+1 400 W 1+1	300 W 1+1 400 W 1+1	300 W 1+1 400 W 1+1	400 W 1+1	460 W 1+1 570 W 2+1 810 W 3+1	460 W 1+1 570 W 2+1 810 W 3+1	460 W 1+1	460 W 1+1 570 W 2+1 810 W 3+1
	DC	300 WATX / PFC	300 WATX / PFC	-	300 WATX / PFC	-	-	-	-	-
No. of Slots / No. of Full-sized Cards		15 / 10	14 / 11	15 / 15	15 / 10	15 / 9	20 / 20	20 / 20	20 / 20	20 / 20
System Fault Detection		Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	-
Dimensions (W x H x D)	(mm)	SBC: 482 x 177 x 447 Motherboard: 482 x 177 x 497	482 x 177 x 478	482 x 177 x 480	482 x 177 x 478	482 x 177 x 478	482 x 177 x 657	482 x 222 x 660	482 x 266 x 463	482 x 307 x 500
	(inch)	SBC: 19 x 7 x 17.6 Motherboard: 19 x 7 x 19.6	19 x 7 x 18.8	19 x 7 x 18.9	19 x 7 x 18.8	19 x 7 x 18.8	19 x 7 x 25.9	19 x 8.75 x 26	19 x 10.5 x 18	19 x 12.1 x 19.7
Weight	(kg)	18	18	18.5	18	19	26	30	30	35
	(lb)	39.6	39.6	40.7	39.6	41.8	57	66	66	77

➔ For complete Motherboard selections refer to Page 6-8.

➔ For complete PICMG 1.3 SHB selections refer to Page 10; PICMG 1.0 SBC selection refer to page 13-14.

➔ For complete PICMG 1.3 backplane selections refer to Page 11-12.; PICMG 1.0 backplane selection refer to page 15-16.

# Industrial Grade Wallmount Chassis

These series of wallmount/desktop chassis are tailored to meet the requirement for rugged system operation in harsh environments not suitable for commercial PCs. They can easily accommodate different space-limited applications. These industrial grade wallmount chassis are supplied with hold down clamps to protect all add-on cards from vibration, and shock resistant drive bays to protect storage devices.



Yes: Supported -: Not Supported

Model Names		Rackmount Chassis				Rackmount Chassis				
		IPC-5120	IPC-7120	IPC-7143	IPC-7220	IPC-6908	IPC-6606 / IPC-6608	IPC-6806	IPC-644	IPC-6006
Drive Bay	Slim CD-ROM	-	-	1	-	-	-	-	-	-
	3.5"	Front	1	1	2 (SATA) + 2	1	1	1	1	-
		Internal	1	1	-	1	1	1	1	-
	5.25"	1	1	-	2	2	IPC-6606: 1 IPC-6608: 2	IPC-6806S/6806: 0 IPC-6806W: 1	-	-
Front I/O	USB	Yes (motherboard version)	Yes (motherboard version)	Yes	Yes	-	-	Yes (IPC-6806W/6806S)	-	-
	PS/2	Yes (motherboard version)	Yes (motherboard version)	Yes	Yes	-	-	-	-	-
Cooling	No. of Fans	2	2	2	1	2	1	1	2	-
	CFM	1 x 85 1 x 10	1 x 85 1 x 10	1 x 85 1 x 47	85	53	IPC-6606: 53 IPC-6608: 85	IPC-6806S/6806: 53 IPC-6806W: 58	1 x 53 1 x 14	-
Power	AC	300 WATX / PFC	300 WATX / PFC	300 WATX / PFC 400 WATX / PFC	300 WATX / PFC 400 WATX / PFC	250 WATX / PFC 300 WATX / PFC 400 WATX / PFC	250 WATX / PFC 300 WATX / PFC	IPC-6806S: 150 W IPC-6806: 200 W IPC-6806W: 300 W	150 WATX / PFC	-
	AC Redundant	-	-	300 W 1+1 400 W 1+1	300 W 1+1 400 W 1+1	-	-	-	-	-
	DC	-	-	300 WATX	300 WATX	300 WATX	-	-	-	-
No. of Slots / No. of Full-sized Cards		-	-	-	-	8/8	6/6	IPC-6806S: 6/0 IPC-6806/IPC-6806W: 6/6	4/0	IPC-6006/IPC-6006P: 6/6 IPC-6006S: 6/0
System Fault Detection		-	-	Yes	Yes	Yes	-	-	-	-
Dimensions (W x H x D)	(mm)	320 x 164 x 307	380 x 164 x 307	320 x 450 x 200	200 x 320 x 480	200 x 300 x 463	IPC-6606: 173 x 254 x 396 IPC-6608: 173 x 315 x 410	IPC-6806S: 191 x 170 x 285 IPC-6806: 166 x 170 x 393 IPC-6806W: 198 x 213 x 393	135 x 209 x 305	IPC-6006: 158 x 186 x 368 IPC-6006P: 158 x 186 x 368 IPC-6006S: 158 x 168 x 215
	(inch)	12.6 x 6.5 x 12.1	15 x 6.5 x 12.1	12.6 x 17.7 x 7.9	7.9 x 12.6 x 18.9	7.9 x 11.8 x 18.2	6.8 x 10 x 15.6 (IPC-6606) 6.8 x 12.4 x 16.1 (IPC-6608)	7.7 x 6.7 x 11.2 (IPC-6806S) 6.5 x 6.7 x 15.4 (IPC-6806) 7.8 x 8.4 x 15.4 (IPC-6806W)	5.3 x 8.2 x 12	IPC-6006: 6.2 x 7.3 x 14.5 IPC-6006P: 6.2 x 7.3 x 14.5 IPC-6006S: 6.2 x 7.3 x 8.4
Weight	(kg)	8	9	14	14	13	9 (IPC-6606) 11 (IPC-6608)	6 ~ 8	5	IPC-6006/IPC-6006P: 2.2 IPC-6006S: 1.6
	(lb)	17.6	19.8	30.8	30.8	28.6	19.8 (IPC-6606) 24.2 (IPC-6608)	13.2 ~ 17.6	11.4	IPC-6006/IPC-6006P: 4.8 IPC-6006S: 3.5

➔ For complete Motherboard selection refer to Page 6-8.

➔ For complete PICMG 1.3 SHB selection refer to Page 10; PICMG 1.0 SBC selection refer to page 13-14.

➔ For complete PICMG 1.3 backplane selection refer to Page 11-12.; PICMG 1.0 backplane selection refer to page 15-16.

# Configuration Table for Chassis and Motherboards

Find out the best combinations of chassis and full-sized ATX / MicroATX motherboards.

Yes: Supported - : Not Supported

Processor Package	Full-sized ATX Motherboards				Full-sized ATX Motherboards		MicroATX Motherboards				
	AIMB-762	AIMB-760	AIMB-750	AIMB-744	AIMB-742	AIMB-740	AIMB-560	AIMB-554	AIMB-542	AIMB-562	
	LGA775	LGA775	Socket 479	Socket 478	Socket 478	Socket 478	LGA775	Socket 479	LGA775	LGA775	
<b>1U System</b>	ACP-1000MB	-	-	Yes	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	-	Yes	-	-
<b>2U System</b>	ACP-2010MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	-	-
	ACP-2320MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	-	-	-
	ACP-2000MB	-	-	Yes	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	-	-	-	-	-
	IPC-603MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	-	-	-
<b>4U System</b>	ACP-4360MB ACP-4362MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	ACP-4320MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	ACP-4000MB ACP-4010MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-630MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-610MB-H/L/F	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-611MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-510MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>5U System</b>	ACP-5260MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>7U System</b>	ACP-7000MB	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>Wallmount System</b>	IPC-5120	-	-	-	-	-	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-7120	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-7143	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-7220	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)

# Configuration Table for Chassis and SBCs

Find out the best combinations of chassis and PCI / ISA SBCs as well as PICMG 1.3 SHBs.

Yes: Supported    -: Not Supported

Processor Package	PCI/ISA Single Board Computers			PCI/ISA Single Board Computers		System Host Board	
	PCE-6190 LGA 775	PCE-6289 Xeon	PCE-6189 Socket 479	PCE-6187 Socket 478	PCE-6186 Socket 478	PCE-7210 Xeon	PCE-5120 LGA 775
<b>1U System</b>	ACP-1000	-	Yes	Yes Max. Intel Pentium 4 Processor 2.8 GHz (68W)	Yes Max. P4 2.8 GHz (68W)	-	-
<b>2U System</b>	IPC-602	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	-	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. P4 3.2 GHz (89W)	-	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	ACP-2000	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	-	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. P4 3.2 GHz (89W)	Yes Max. LV Intel Xeon Processor 2.8 GHz (55W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>4U System</b>	ACP-4360 ACP-4362	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	ACP-4010	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	ACP-4320	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	ACP-4000	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-630	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-610-H/L/F	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-611	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-510	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>5U System</b>	IPC-623	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	ACP-5260	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>6U System</b>	IPC-622	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>7U System</b>	ACP-7000	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	Yes Suggested min. 400W PS	Yes	Yes	Yes Suggested min. 400W PS Max Intel Xeon Processor 3.6 GHz (110W)	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
<b>Wallmount System</b>	IPC-6908	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	-	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. P4 3.2 GHz (89W)	-	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-6608	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	-	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. P4 3.2 GHz (89W)	-	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-6606	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	-	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. P4 3.2 GHz (89W)	-	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)
	IPC-6806/6806W	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)	-	Yes Max. Intel Pentium 4 Processor 3.2 GHz (89W)	Yes Max. P4 3.2 GHz (89W)	-	Yes Max. Intel Pentium 4 Processor 3.8 GHz (115W)

