IPC-4000M

4U Rackmount PC with ATX Motherboard, front USB & PS/2 connectors and Alarms

Features

- Industrial ATX Motherboards available with processors from low power Celeron D to high-speed Core2 Duo & Core2 Quad with memory up to 8GB
- Shock resistant drive bay holds 3 x 5.25" & 1 x 3.5" drives
- SATA II HDDs from 80 -750GB (fixed or removable) with RAID support
- Supports up to 3xPCI slots, 3xPCI-express slots(x16,x4,x1) & 1xISA
- Lockable front door prevents unauthorised access to power switch & drives
- Front-accessible USB, keyboard/mouse port and alarm indication
- Alarm indication of power supply failure, fan failure or overtemperature
- Range of AC & DC PSUs including dual redundant
- Rugged construction and design for harsh environments
- Customisable to suit most applications (e.g colour, I/O ports etc.)
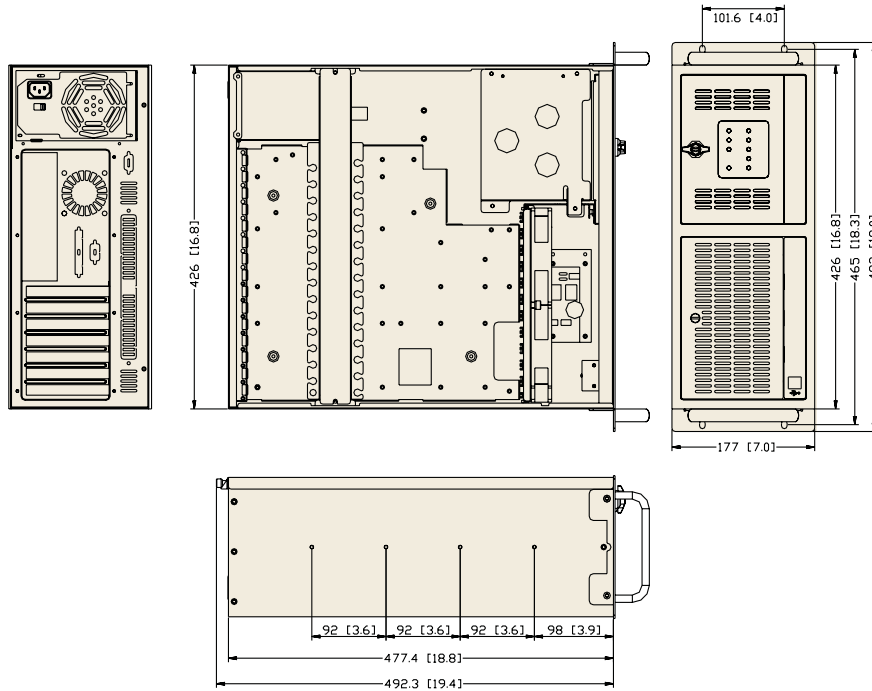
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Description

The IPC-4000M is a 19" 4U Rackmount PC designed for applications where reliability and robustness are essential. Typical applications include internet servers, telecoms servers and industrial control & monitoring systems. The unit uses an Industrial ATX Motherboard which supports processors from Celeron D to high-speed Core2 Duo & Core2 Quad and memory up to 8GB. It has a lockable front door which gives access to a CD/DVD writer & Floppy and has space for 2 internal SATA II hard drives from 80 - 750GB (fixed or removable). The Industrial ATX motherboard has a wide range of I/O options and supports RAID. Expansion options include 3xPCI slots, 3xPCI-express slots(x16,x4,x1) and 1xISA slot. The unit has front-accessible USB and PS/2 ports and provides alarms for power supply failure, fan failure and overtemperature. The IPC-4000M also supports dual redundant Power supplies and can be customised to suit specific applications.
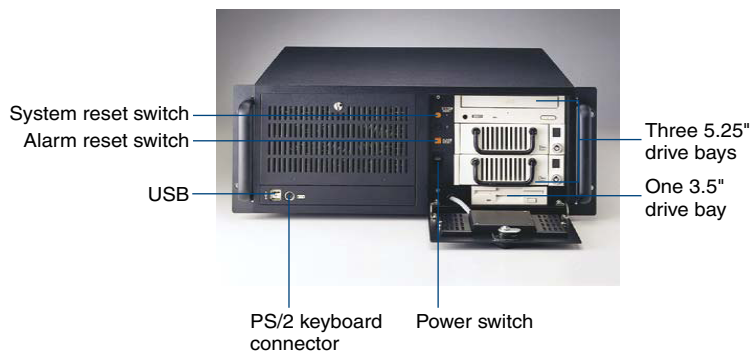
Specifications

	Celeron D/Pentium 4	Core2 Duo
Chassis	ACP-4000MB	ACP-4000MB
Drive Bays (external)	1 x 5.25 + 1 x 3.5"	1 x 5.25 + 1 x 3.5"
Drive Bays (internal)	2 x 3.5"	2 x 3.5"
I/O ports (front)	2 x USB, 1xPS/2 Keyboard & Mouse	2 x USB, 1xPS/2 Keyboard & Mouse
Switches & Indicators (front)	On/Off & Reset Sw., Power & HDD LEDs	On/Off & Reset Sw., Power & HDD LEDs
I/O ports (rear)	Spare 9-way D opening	Spare 9-way D opening
Cooling	2 x 85 CFM fans, front removable filter	2 x 85 CFM fans, front removable filter
Power Supply		
Standard Option	350W ATX PFC AutoSw. 100-240V AC	350W ATX PFC AutoSw. 100-240V AC
Industrial Motherboard		
Motherboard	P4LA/AIMB-764	P4LA/AIMB-764
CPU	Celeron D or Pentium 4 3.2GHz	Core2 Duo 1.6GHz - 2.0GHz
Memory	512MB - 3GB DDR2 400/533/667	512MB - 3GB DDR2 400/533/667
Graphics	Intel On-board Extreme graphics	Intel On-board Extreme graphics
EIDE/SATA	1 x EIDE, 4 x SATA II (RAID 0,1,5,10)	1 x EIDE, 4 x SATA II (RAID 0,1,5,10)
Network	1x10/100/1000 Base-T	1x10/100/1000 Base-T
Audio	AC97 Line-in,Line-out,Mic-in,Spk-out	AC97 Line-in,Line-out,Mic-in,Spk-out
I/O ports (rear)	VGA,LAN,COM1,4xUSB,Audio,LPT1,kbd&mse	VGA,LAN,COM1,4xUSB,Audio,LPT1,kbd&mse
Optional I/O ports (rear)	5xRS232 ports(COM2-COM6),1xIrDA	5xRS232 ports(COM2-COM6),1xIrDA
Expansion Slots	3xPCI, 3xPCI-express(x16,x4,x1), 1xISA	3xPCI, 3xPCI-express(x16,x4,x1), 1xISA
Miscellaneous	On-board Watchdog Timer	On-board Watchdog Timer
Drives		
Floppy Drive	3.5" 1.44MB	3.5" 1.44MB
CD/DVD	CD/DVD Writer	CD/DVD Writer
Hard Drive	3.5" 80 - 750 GB (max. of 2 internal)	3.5" 80 - 750 GB (max. of 2 internal)
Operating Conditions		
Temperature (operating)	0 to 50 degrees	0 to 50 degrees
Temperature (non-operating)	-20 to 60 degrees	-20 to 60 degrees
Humidity (non-condensing)	10 - 90%	10 - 90%
Shock (operating)	10G	10G
Shock (non-operating)	30G	30G
MTBF		
	>50,000 hrs	>50,000 hrs
Physical Characteristics		
Dimensions (W x H x D) mm	482 x 177 x 480 mm	482 x 177 x 480 mm
Weight (kg)	20.0kg	20.0kg

Dimension Diagram

101.6 [4.0]
426 [16.8]
426 [16.8]
465 [18.3]
482 [19.0]
177 [7.0]
92 [3.6] 92 [3.6] 92 [3.6] 98 [3.9]
477.4 [18.8]
492.3 [19.4]

Unit: mm (inch)

System reset switch
Alarm reset switch
USB
PS/2 keyboard connector
Power switch
Three 5.25" drive bays
One 3.5" drive bay

Two 85-CFM cooling fans

Ordering Information

Each IPC-4000M is configured to meet the customers specifications and given a unique part number. Typical configurations are shown below:

Part Number	Description
IPC-4000M-48221-104010 Basic System	IPC-4000M with 350W PSU, PCA-6114P4 backplane (2xPICMG,4xPCI,8xISA), PIII 1.2GHz processor, 128MB memory, CD/DVD Writer, 80GB Hard Drive, 1.44MB Floppy Drive, No Operating System and finished in Black.
IPC-4000M-49353-904610 Intermediate	IPC-4000M with 350W PSU, PCA-6114P7 backplane (3xPICMG,7xPCI,4xISA), Celeron M 2.0GHz processor, 512MB memory, CD/DVD Writer, 160GB Hard Drive, 1.44MB Floppy Drive, XP Home and finished in Black.
IPC-4000M-4A576-A04710 High Power System	IPC-4000M with 350W PSU, PCA-6114P10 backplane (2xPICMG,10xPCI,2xISA), Core2 Duo 2.0GHz processor, 3GB memory, CD/DVD Writer, 500GB Hard Drive, 1.44MB Floppy Drive, XP Pro and finished in Black.