

# IPC-2320M

## 2U Rackmount PC System with Industrial ATX Motherboard and Dual SATA HDD Trays



### Features

- Industrial ATX Motherboards available with processors from low power Celeron D to high-speed Core2 Duo with memory up to 3GB
- Shock resistant drive bay holds 1 x slimline CD/DVD and 2 x 3.5" for removable SATA II hard drives
- Lockable front door prevents unauthorised access to switches & drives
- Front-accessible USB, keyboard/mouse port and alarm indication
- Supports up to 3xPCI slots, 3xPCI-express slots(x16,x4,x1) & 1xISA
- 350 watt ATX PFC autoswitching PSU (100 -240V AC)
- SATA-II and RAID support for 2 removable hard drives
- Alarm indication of power supply failure, fan failure or overtemperature
- Customisable to suit most applications (e.g colour, I/O ports etc.)



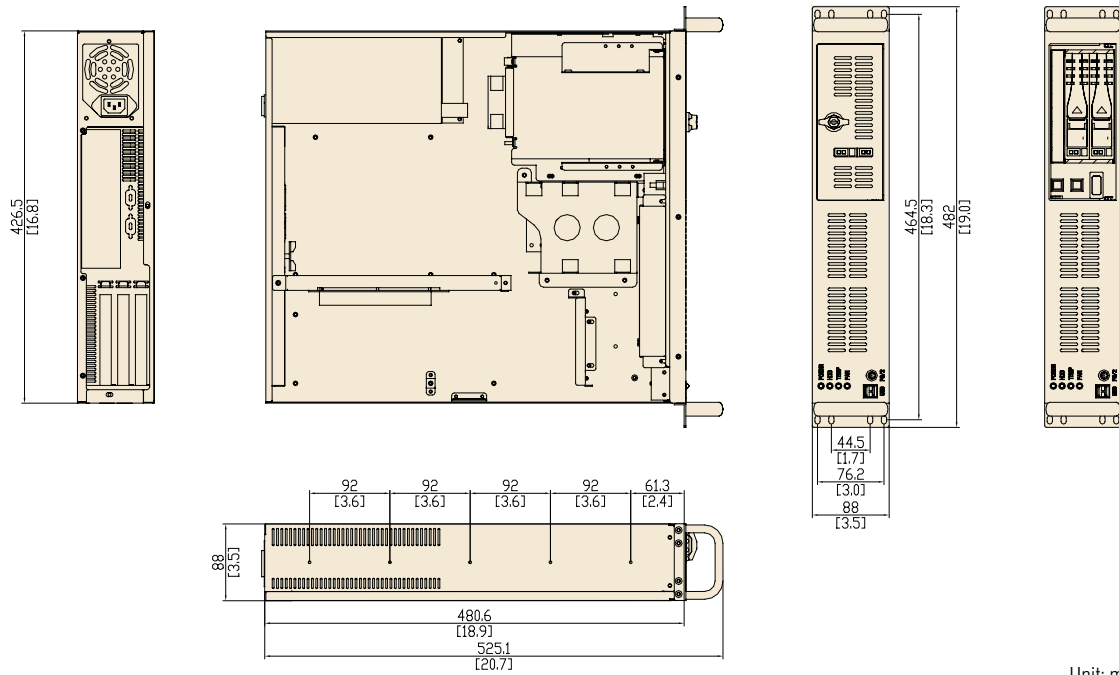
### Description

The IPC-2320M is a 19" 1U Rackmount PC designed for applications where reliability and robustness are essential but space is limited. 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, it has a front accessible CD/DVD writer and up to 2 removable SATA II hard drives from 80 - 750GB each. Expansion includes 3xPCI slots, 3xPCI-express slots(x16,x4,x1) and 1xISA slot. The IPC-2320M has a wide range of I/O ports and can be customised to suit specific applications.

### Specifications

	Celeron D/Pentium 4	Core2 Duo
<b>Chassis</b>	Advantech ACP-2320MB	Advantech ACP-2320MB
Drive Bays (external)	1 x 5.25 Slim + 2 x 3.5"	1 x 5.25 Slim + 2 x 3.5"
Drive Bays (internal)	N/A	N/A
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 & 68-pin SCSI opening	Spare 9-way D opening & 68-pin SCSI opening
Cooling	2 x 47 CFM fans, front removable filter	2 x 47 CFM fans, front removable filter
<b>Power Supply</b>	350W ATX PFC AutoSw. 100-240V AC	350W ATX PFC AutoSw. 100-240V AC
<b>Industrial Motherboard</b>		
Motherboard	Commell P4LA	Commell P4LA
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
<b>Drives</b>		
Floppy Drive	3.5" 1.44MB (optional)	3.5" 1.44MB (optional)
CD/DVD	Slimline CD/DVD Writer	Slimline CD/DVD Writer
Hard Drive	3.5" 80 - 750 GB removable	3.5" 80 - 750 GB removable
<b>Operating Conditions</b>		
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
<b>MTBF</b>	>50,000 hrs	>50,000 hrs
<b>Physical Characteristics</b>		
Dimensions (W x H x D) mm	482 x 88 x 480 mm	482 x 88 x 480 mm
Weight (kg)	15kg	15kg

## Dimensions



Unit: mm (inch)



The front view of IPC-2320M



The inside view of IPC-2320M



Dual easy-to-maintain SATA HDD trays



The rear view of IPC-2320M

Each IPC-2320M is configured to meet the customers specifications and given a unique part number. Typical configurations are shown below:

Part Number	Description
IPC-2320M-408A3-D06010 Basic System	IPC-2320M with Celeron D 3.2GHz, 512MB memory, CD/DVD writer, 80GB removable Hard Drive, 1.44MB Floppy Drive, No Operating System and finished in Black.
IPC-2320M-40884-E06710 Intermediate	IPC-2320M with Pentium 4 3.2GHz processor, 1GB memory, CD/DVD writer, 160GB removable Hard Drive, 1.44MB Floppy Drive, XP Pro and finished in Black.
IPC-2320M-40876-GG6710 High Power System	IPC-2320M with Core2 Duo 2.0GHz processor, 3GB memory, CD/DVD writer, Dual 500GB removable Hard Drives, 1.44MB Floppy Drive, XP Pro and finished in Black.