IPC-2000

2U Rackmount PC System with 4 free PCI Slots, front USB & PS/2 ports and Alarms

Features

- Processor Cards available from low-power PIII to high-speed Core 2 Duo with memory up to 3GB
- One internal 3.5" Hard drive from 80 - 500GB
- Lockable front door prevents unauthorised access to Switches & Drives
- Shock resistant drive bay holds one slim CD/DVD and up to two 3.5" drives
- Front-accessible USB and keyboard/mouse port
- Supports up to 4 full length 32-bit PCI cards (optional 64-bit)
- Alarm indication of power supply failure, fan failure or overtemperature
- 350 watt ATX PFC autoswitching PSU (100 -240V AC)
- Rugged construction and designed for harsh industrial environments
- Customisable to suit most applications (e.g. colour, I/O ports etc.)
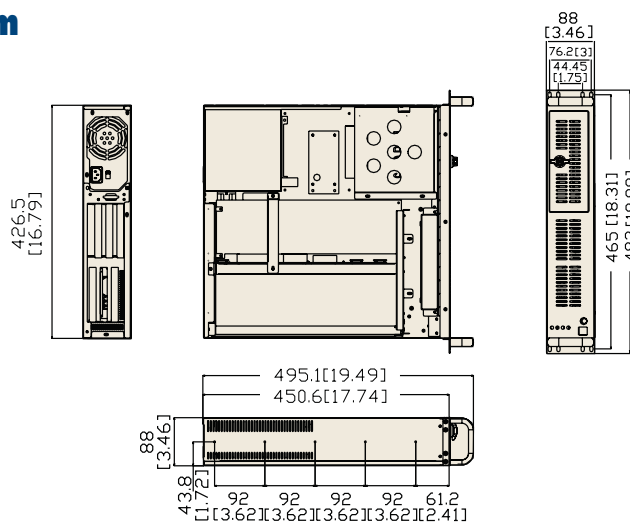
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Description

The IPC-2000 is a 19" 2U 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. The unit can be supplied with processor cards from low-power PIII to high-speed Core2 Duo. It has a front lockable drive bay door to access the power switch, reset switch, alarm reset, slimline CD/DVD writer, floppy drive and a spare 3.5" drive bay (e.g for removable hard drive or tape streamer). The IPC-2000 is supplied with an internal 3.5" hard drive with options from 80 - 500GB. Expansion is provided by four full length 32-bit PCI slots (optional 64-bit). The USB and keyboard/mouse ports are front-accessible to simplify system modifications and data transfers in the field. The unit provides alarm indication (audio & visual) for power supply failure, fan failure and overtemperature. These alarm features and the modular design allow for maintenance with a minimum of downtime. The IPC-2000 has a wide range of I/O ports and can be customised to suit most applications.
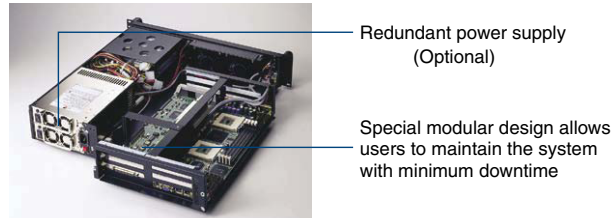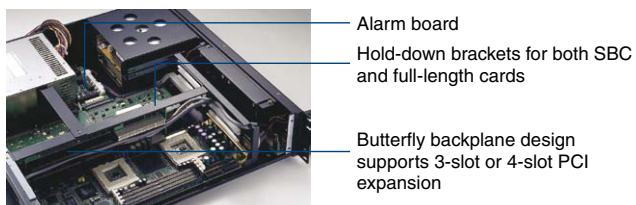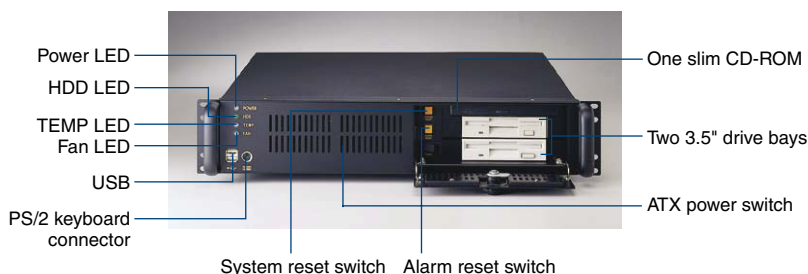
Specifications

	Pentium III	Celeron M	Core2 Duo
Chassis	ACP-2000	ACP-2000	ACP-2000
Drive Bays (external)	1 x 5.25 Slimline + 2 x 3.5"	1 x 5.25 Slmiline + 2 x 3.5"	1 x 5.25 Slimline + 2 x 3.5"
Drive Bays (internal)	1 x 3.5"	1 x 3.5"	1 x 3.5"
I/O ports (front)	1xPS/2 Keyboard/Mouse, 2xUSB	1xPS/2 Keyboard/Mouse, 2xUSB	1xPS/2 Keyboard/Mouse, 2xUSB
Switches & Indicators (front)	On/Off & Reset Sw., Power & HDD LEDs	On/Off & Reset Sw., Power & HDD LEDs	On/Off & Reset Sw., Power & HDD LEDs
I/O ports (rear)	Mains I/P, spare 9-way D opening	Mains I/P, spare 9-way D opening	Mains I/P,spare 9-way D opening
Cooling	2 x 8cm fans, front removable filter	2 x 8cm fans, front removable filter	2 x 8cm fans, front removable filter
Power Supply	350W ATX PFC Auto. 100-240V AC	350W ATX PFC Auto.100-240V AC	350W ATX PFC Auto. 100-240V AC
	(Dual Redundant PSU optional)	(Dual Redundant PSU optional)	(Dual Redundant PSU optional)
Backplane			
Standard 32-bit PCI	PCA-6105P4V (1xCPU, 4xPCI)	PCA-6105P4V (1xCPU, 4xPCI)	PCA-6105P4V (1xCPU, 4xPCI)
Single Board Computer			
Processor Card	PCA-6003VE	FS-97C	FS-97C
CPU	PIII 1.2GHz Tualatin	Celeron M 1.6GHz - 2.0GHz	Core2 duo 1.6GHz - 2.0GHz
Memory	256MB - 1GB PC133 SDRAM	512MB - 3GB DDR2 667 MHz	512MB - 3GB DDR2 667 MHz
Graphics	Intel On-board Extreme graphics	Intel On-board Extreme GMA950 graphics	Intel On-board Extreme GMA950 graphics
Network	1x10/100 Base-T	1xGbit LAN (optional 2xGbit LAN)	1xGbit LAN (optional 2xGbit LAN)
Audio	AC97 Line-in,Line-out,Mic-in,Spk-out	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, PS/2 keyb & mouse	VGA, LAN, COM1, PS/2 keyb & mouse	VGA, LAN, COM1, PS/2 keyb & mouse
Optional I/O ports (rear)	LPT1, COM2, 2xUSB, AC97 Audio,1xIrDA	LPT1, COM2, 4xUSB, AC97 Audio, 1xIrDA	LPT1, COM2, 4xUSB, AC97 Audio, 1xIrDA
Miscellaneous	On-board Watchdog Timer	Watchdog,Compact Flash & 2xmini-PCI	Watchdog,Compact Flash & 2xmini-PCI
Drives			
Floppy Drive	3.5" 1.44MB	3.5" 1.44MB	3.5" 1.44MB
CD/DVD	CD/DVD Writer	CD/DVD Writer	CD/DVD Writer
Hard Drive	3.5" 80 - 500 GB	3.5" 80 - 500 GB	3.5" 80 - 500 GB
Operating Conditions			
Temperature (operating)	0 to 50 degrees	0 to 50 degrees	0 to 50 degrees
Temperature (non-operating)	-20 to 60 degrees	-20 to 60 degrees	-20 to 60 degrees
Humidity (non-condensing)	10 - 90%	10 - 90%	10 - 90%
Shock (operating)	10G	10G	10G
Shock (non-operating)	30G	30G	30G
MTBF			
	>50,000 hrs	>50,000 hrs	>50,000 hrs
Physical Characteristics			
Dimensions (W x H x D) mm	482 x 88.4 x 495.1 mm	482 x 88.4 x 495.1 mm	482 x 88.4 x 495.1 mm
Weight (kg)	14.5kg	14.5 kg	14.5kg

Dimension Diagram

426.5 [16.79]

88 [3.46]
76.2 [3]
44.45 [1.75]
465 [18.31]
482 [18.98]

495.1 [19.49]
450.6 [17.74]
88 [3.46]
43.8 [1.72]
92 [3.62] 92 [3.62] 92 [3.62] 92 [3.62] 61.2 [2.41]

Unit: mm (inch)

Power LED
HDD LED
TEMP LED
Fan LED
USB
PS/2 keyboard connector

One slim CD-ROM
Two 3.5" drive bays
ATX power switch

System reset switch   Alarm reset switch

Alarm board
Hold-down brackets for both SBC and full-length cards
Butterfly backplane design supports 3-slot or 4-slot PCI expansion

Redundant power supply (Optional)
Special modular design allows users to maintain the system with minimum downtime

Two 47-CFM cooling fans

Each IPC-2000 is configured to meet the customers specifications and given a unique part number. Typical configurations are shown below:

Part Number	Description
IPC-2000-B3222-A06010 Basic System	IPC-2000 with PIII 1.2GHz processor, 256MB memory, CD/DVD writer, 80GB Hard Drive, 1.44MB Floppy Drive, No Operating System and finished in Black.
IPC-2000-B3543-C06610 Intermediate	IPC-2000 with Celeron M 1.6GHz processor, 512MB memory, CD/DVD writer, 160GB Hard Drive, 1.44MB Floppy Drive, XP Home and finished in Black.
IPC-2000-B3576-GH6710 High Power System	IPC-2000 with Core2 Duo 2.0GHz processor, 3GB memory, CD/DVD writer, 500GB Removable Hard Drive, 500GB internal Hard Drive,1.44MB Floppy Drive, XP Pro and finished in Black.