

IPC-613

2U Rackmount e-Server Chassis for ATX Motherboard

Features At a Glance

- ✓ 2U, Rackmount
- ✓ Two 32-bit PCI slots on a riser card
- ✓ Supports One CD-ROM Drive, One FDD and Four 3.5" HDDs
- ✓ 300W ATX Power Supply
- ✓ Recommended Motherboards for Optimum Integration



Application

For Internet and Intranet service providers and enterprises

The IPC-613 has 2U height that makes it an attractive choice for Internet and Intranet service providers and enterprises that use stacked server configurations.



The IPC-613 is designed to use an ATX form factor server board. With a flexible choice of server boards, the IPC-613 gives system integrators complete freedom to choose an optimum configuration when developing specific applications.

Specifications

Expansion	2 x 32-bit PCI slots on a riser card
Power supply	300W ATX AC power supply
Disk drives	1 x CD-ROM Drive, 1 x FDD and 4 x 3.5" HDD (SCA-2 hot-swap: optional)
Cooling fan	3 x 38.6-CFM, 115.8 CFM in total
Indicators	LED displays for power, fan status and temperature status
Operating temp.	up to 45°C (113°F) environment
Control	Momentary power switch & alarm reset switch
Dimensions	482 x 595 x 88 mm (19" x 23.5" x 3.5")
Weight	10kg (22lb)

System Monitoring Advantech fault-detection and alarm capabilities monitor the system for power, fan failure and overheating inside the chassis.

Maximize Uptime

Hot-swappable Disk Drives

The IPC-613 series has an optional SCSI SCA-2 interface midplane, enabling SCSI HDDs to be hot-swappable for maximum system uptime. This feature is ideal for the high availability demands of the Internet applications.



The IPC-613 series with high storage capacity accommodates four 3.5" disk drives, one CD-ROM drive and one FDD.



Expandability

The IPC-613 offers high expandability for demanding applications. The IPC-613 supports 4 disk drive bays total and 2 PCI expansion slots.



Cooling Fans

The IPC-613's three easily replaceable cooling fans provide a total of 115.8CFM ventilation capacity.



System Monitoring

Real-time and Intelligent Alarm Notification

Equipped with an alarm board, the IPC-613 can detect power and fan failure and chassis temperature. If any failure is detected, the system starts to beep immediately, continuing until the alarm reset switch is pressed.

Ordering Information

Standard Offer	with Power Supply	Hot-swap HDD (with SCA-2 midplane)
IPC-613	ATX 300 W	—
IPC-613-SCA	ATX 300 W	V

Power Supply

Power Supply Model Name	Specifications				
	Watt	Input	Output	Mini-load	MTBF
PS-300ATX-2U	300W	100/200 V _{AC}	+5 V @ 26 A +3.3 V @ 16 A +12 V @ 10 A -5 V @ 0.25 A -12 V @ 1 A +5V SB @ 1.5A	+ 5V @ 1A +12V @ 0.5A +3.3V @ 0A	50,000 hours @ 50 C

Recommended Server Board

Ordering No.	Description	SCSI	VGA
T250820200	TYAN S1837UANG	Ultra 2 x 2	—
T250810300	Intel L440GXH	Ultra 2 x 1 Ultra Wide x 1	Cirrus Logic GD 5480 3MB of SDRAM

Optional Storage Device

Ordering P/N	Descriptions
CD-FDD COMBO	Slim-type CD-ROM/FDD Fits into One Half-height Disk Drive



IPC-602

2U 6-slot Rackmount Server PC Chassis

Features At A Glance

- ✓ 2U High, Rackmount
- ✓ Butterfly Backplane Design
- ✓ 300 W ATX Power Supply
- ✓ Two Filtered 42 CFM Cooling Fans
- ✓ Recommended CPU Cards for Optimum Integration



Specifications

Backplane	2 ISA/ 3 PCI/1 PICMG slot backplane (3-slot PCI available)
Power supply	300 W ATX power supply. Optional 310 W DC power supply
Disk drives	Support 1 x half-height and 1x 3.5" disk drives in front; 1 X 3.5" drive inside
Cooling fan	Two 42 CFM cooling fan with air filter
Dimensions	19" rackmount, 2U height 482 x 450 x 88 mm (19" x17.7" x 3.5")
Weight	10 kg (22 lb)
Indicators	LED displays for Power On, +3.3V _{DC} status and HDD activity
Operating temp.	Up to 45°C (113°F) environment
Keyboard connectors	One AT keyboard connector in front, and reserved 9-pin and 25-pin connectors at rear panel

Special Design

Butterfly Backplane Design for Uncompromising Performance

The butterfly (horizontal double-sided) backplane design provides 1 ISA/ 3 PCI/ 1 PICMG slots within its compact 2U height. It can pack the power of Pentium III, Celeron or Super7 CPU card applications.

Modular Design for Easy Maintenance

IPC-602's special modular design includes a drawer to easily slide out backplanes for SBC and I/O card replacements. This helps users to maintain the system with minimum downtime.



Expandability

Flexible Expandability

This rackmount e-Server chassis provides unprecedented 1 ISA and 3 PCI expansion slots, making it the perfect choice for the requirements of high configuration flexibility and system expandability in Internet applications.



Storage Capacity

Up to 3 Disk Drives in Total

The IPC-602 accommodates with one half-height and one 3.5" disk drive in front. An additional 3.5" drive can be installed inside the chassis. The optional compact storage device of one CD-ROM and FDD is also available.



Cooling Fans

Cooling Fans and Filter with High Servicability

The front of the IPC-602 has two 42 CFM cooling fans with filters, with easy maintenance design.



Simply remove two hand screws for easy fan replacement.

Applications

Ideal Platform for ISP, ASP and Co-location



A co-location service provides the physical environment necessary to keep customer's servers up and running around the clock. IPC-602 with its 2U high design, easy management, flexible expandability and other impressive features, fully satisfies the criteria required for co-location applications.

Ordering Information

Standard Offer	with Power Supply	with Backplane
IPC-602P3-30X	PS-300 ATX	V
IPC-602P3-30D	PS-310-DC48	V

Power Supply Options

Model Name	Specifications					
	Watt	Input	Output (Max.)	Mini-load	Safety	MTBF
PS-300ATX (ATX)	300 W	110/220 V _{ac}	+5 V @ 30 A +3.3 V @ 26 A (Max. 220W for +5V & +3.3V) +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.5 A (Max. 0.8A for -12V & -5V) +5 V _{sb} @ 2 A	+5 V @ 1 A +12 V @ 0.2 A	UL, CUL, CB, CCIB, CE, CCEE, NEMKO, TUV, BSMI	100,000 hours @ 25 C
PS-310-DC48 (AT)	310 W	-48 V _{dc}	+5 V @ 25A +12 V @ 8A +3.3 V @ 14 A -5 V @ 0.5 A -12 V @ 0.8 A +5 VSB @ 1A	+5 V @ 1.5 A +12 V @ 0.2 A	UL, CE	100,000 hours @ 25 C

Recommended CPU Cards for System Integration

Model Name	Specifications				
	CPU	Chipset	Max. RAM	On-board Features	Ref. Page
PCA-6276	Dual Pentium® III / Celeron™ up to 850/500 MHz	Intel 440BX	1 GB SDRAM	VGA / LAN	14
PCA-6178	Socket 370 Pentium® III 850 MHz	Intel 440BX	768MB SDRAM	VGA / LAN / SCSI	17
PCA-6179	Socket 370 Pentium® III 933 MHz	VIA ApolloPro 133 A	1.5 GB SDRAM	VGA / LAN / SCSI	16

Optional Storage Device

Ordering P/N	Descriptions
CD-FDD COMBO	Slim-type CD-ROM/FDD Fits into One Half-height Disk Drive

IPC-601

1U 2-slot Rackmount e-Server Chassis

Features At A Glance

- ✓ 1U High, Rackmount
- ✓ 1 PCI / 1 PICMG slots
- ✓ 300 W ATX Power Supply
- ✓ One CD-ROM Drive / One FDD / Three 3.5" HDDs
- ✓ Recommended CPU Cards for Optimum Integration



Specifications

Backplane	1 PCI/1 PICMG slot backplane
Power supply	300 W ATX power supply.
Disk drives	1 x CD-ROM Drive, 1 x FDD, and 3 x SCA-2 hot-swap(optional) 3.5" HDDs
Cooling fan	3 x 7 CFM cooling fans, 21 CFM in total
Dimensions	19" rackmount, 1U height 482 x 600 x 44 mm (19" x23.6" x 1.7")
Weight	8kg (17.6 lb)
Indicators	LED displays for power, alarm and HDD activities
Operating temp.	Up to 40°C (32-104°F) environment
Control	Momentary power switch & alarm reset switch

System Monitoring Advantech fault-detection and alarm capabilities monitor the system for power, fan failure, and overheating inside the chassis.

Application

For Multi-server Environments of Internet Service Provider

The ultra-thin IPC-601 1U rackmount chassis is designed for service providers and corporate customers who are space constrained and/or want to deploy vast volumes of servers.

The 1U design radically simplifies complex, growing multi-server environments such as co-location, web-hosting and e-commerce Internet Service Provider and Application Service Provider.



Dedicated Functionality

The 1U thin server is designed to deploy dedicated purpose server functionality on a modular as needed basis. For each dedicated chassis, the IPC-601 comes with one PICMG for full-featured CPU card as a system engine and one expansion slot for other added features.



Maximum Uptime

Hot-swappable Disk Drives

The IPC-601 series has an optional SCSI SCA-2 interface midplane, enabling SCSI HDDs to be hot-swappable for maximum system uptime. This feature is especially ideal for the high availability demands of the Internet applications.



The IPC-601 series with high storage capacity accommodates three 3.5" disk drives, one CD-ROM drive and one FDD .

Cooling Fans

Three easy-to-replace 7 CFM cooling fans inside the chassis offer sufficient airflow (21 CFM in total) for system reliability. Downtime is minimized by the easy maintenance design.

System Monitoring

To meet the expected criteria of demanding Internet applications, the IPC-601 is equipped with an alarm board for integrating server management features such as automatic detection and notification for power and fan failure and overheating within the chassis.



Ordering Information

Standard Offer	with Power Supply	Hot-swap HDD (SCA-2 midplane)
IPC-601-SCA	ATX 300 W	V

Power Supply

Model Name	Specification				
	Watt	Input	Output	Mini-load	MTBF
PS-300 ATX-1U	320	115/230 VAC 50/60 Hz, auto-switch	+5V @ 32A +12V @ 12A +3.3V @ 20A -5V @ 0.5A -12V @ 0.5A +5V sb @2A	+5V @ 1A +12V @ 0A +3.3V @ 0A	50,000 hours

Recommended CPU Cards for System Integration

Model Name	Specifications				
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PCA-6178	Socket 370 Pentium® III 850 MHz	Intel 440BX	768MB SDRAM	VGA / LAN / SCSI	17
PCA-6179	Socket 370 Pentium® III 933 MHz	VIA ApolloPro 133 A	1.5 GB SDRAM	VGA/ LAN / SCSI	16