

# IPC-623

## 4U 20-slot Fault Resilient IPC Chassis



### Features

- Supports up to 20-slot ISA/PICMG backplanes
- Front accessible and hot-swappable 300 W 1+1 redundant power supply with on/off key lock
- Removable disk drive bay mounted with up to three half-height drivers and one 3.5" FDD, plus one internal 3.5" HDD
- Three hot-swappable 86 CFM cooling fans
- Hold-down clamp protects plug-in cards from vibration
- Baby-AT, Mini-ATX, ATX motherboard version are available
- Fault detection with audible and visual alarms for power supply and fan failure or overheating.

### Introduction

The IPC-623 is a 4U height rackmount IPC chassis which can hold a 20-slot ISA/PCI backplane and 300 W redundant power supply.

In addition, the IPC-623 also features advanced fault resilient capability. An audible alarm is activated for power failure and fan failure or overheating which makes it an ideal solution for both computer telephony applications and industrial automation systems.

### Specifications

- **Construction:** Heavy-duty steel
- **Disk drive capacity:**  
With redundant power supply, can supports three half-height and one 3.5" front accessible disk drives and one 3.5" internal HDD.  
With single power supply, can supports up to six half-height and two 3.5" front accessible disk drives and two 3.5" internal HDDs.
- **Cooling system:** Three hot-swap 86 CFM fans
- **Controls:** System reset, power On/Off, alarm reset on the front panel behind door
- **Status indicators:** Bi-color LEDs (green/red) for power failure, fan failure and overheating. Single-color LEDs (green) for HDD activity, +5 V, +12 V, -5 V, -12 V power source.
- **Keyboard connector:** Pre-wired 5-pin DIN connector front-accessible
- **Speaker:** One 8 W compact size speaker
- **Dimension (W x H x D):** 482 x 177 x 660 mm (19" x 7" x 26")
- **Weight:** 26 kg (57 lb)
- **Paint color:** Black 2U 2X, Fabric Texture (Pantone 414U also available)
- **Fault detection and alarm notification:** Monitoring of system hardware including fan failure, power failure and overheating. Audible alarm included.
- **Operating temperature:** 0 ~ 45° C (32 ~ 113° F)
- **Relative humidity:** 10 ~ 95%, @ 40° C, non-condensing
- **CE compliant, UL, C-UL approved**

### Power Supply Specifications

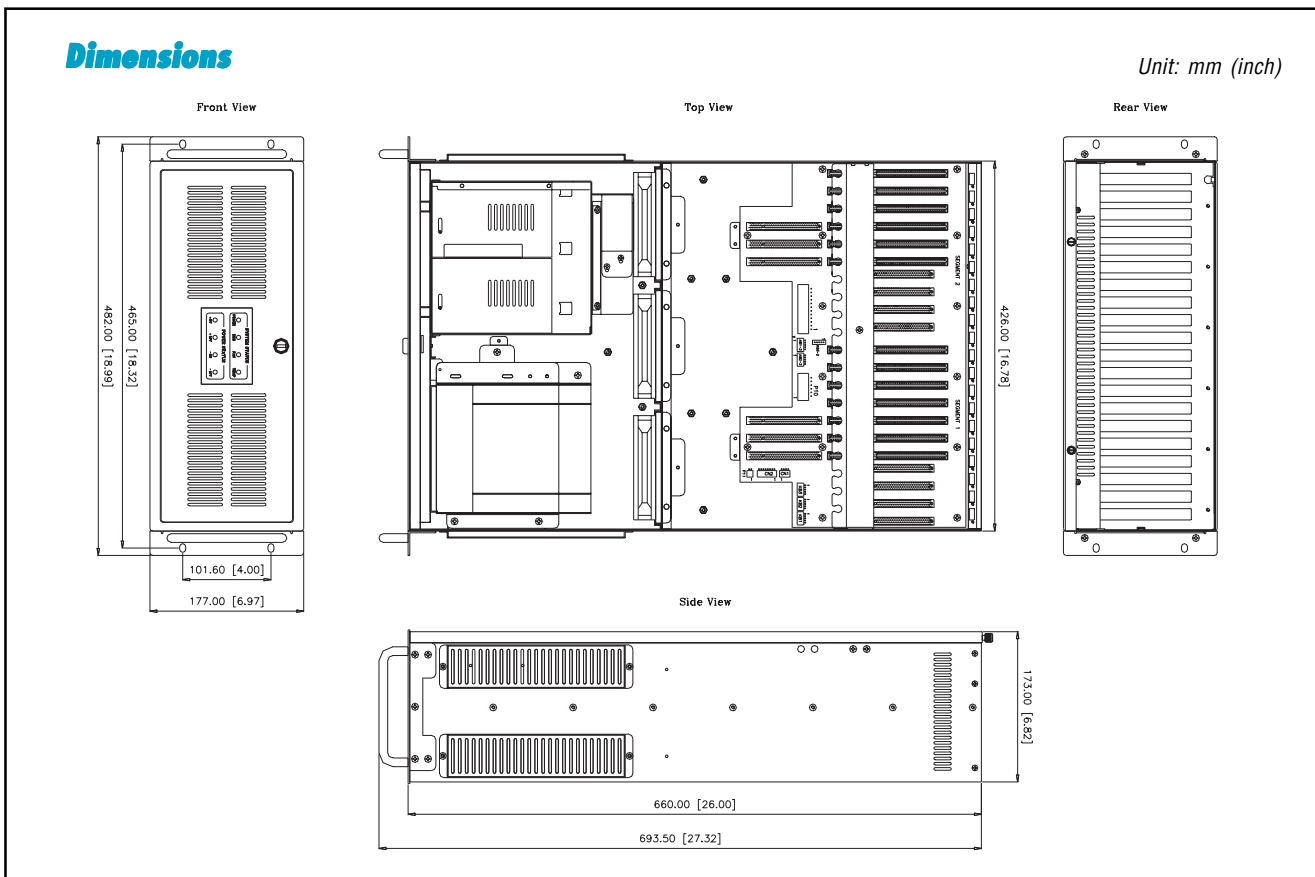
Model Name	Specifications				
	Watt	Input	Output	Mini-load	MTBF
RPS-300V (AT Redundant)	300 W	110/220 V <sub>AC</sub>	+5 V @ 30 A +12 V @ 12 A -5 V @ 0.5 A -12 V @ 0.5 A	+5 V @ 2 A +12 V @ 1 A	100,000 hours
PS-300X-DPS (ATX)	300 W	110/220 V <sub>AC</sub>	+5 V @ 32 A +12 V @ 12 A +3.3 V @ 28 A -5 V @ 0.25 A -12 V @ 0.5 A +5 VSB @ 1 A	+5 V @ 2 A +12 V @ 0.75 A +3.3 V @ 0.5 A	50,000 hours
RPS-400XV (ATX Redundant)	400 W	110/220 V <sub>AC</sub>	+5 V @ 42 A +12 V @ 14 A +3.3 V @ 20 A -5 V @ 1 A -12 V @ 1 A +5 VSB @ 0.75 A	+5 V @ 2 A +12 V @ 0.5 A +3.3 V @ 0.3 A	100,000 hours
PS-400-SPW (AT)	400 W	110/220 V <sub>AC</sub>	+5 V @ 40 A +12 V @ 20 A -5 V @ 0.5 A -12 V @ 1 A	+5 V @ 3 A +12 V @ 0.5 A	150,000 hours
PS-400-PRT (ATX)	400 W	110/220 V <sub>AC</sub>	+5 V @ 42 A +12 V @ 14 A +3.3 V @ 20 A -5 V @ 1 A -12 V @ 1 A +5 VSB @ 0.75 A	+5 V @ 2.5 A +12 V @ 0.5 A +3.3 @ 0.2 A	100,000 hours

UL/CSA/TÜV/CE approved



The IPC-623 features a front-accessible hot-swap redundant 300 W power supply with on/off key lock for easy maintenance and replacement.





## Ordering Information

For flexible system integration, Advantech provides the following integration options for your specific needs. Please note that barebone models are equipped with power supplies but without backplanes. You may choose the required backplane from the backplane options, and integrate it into the chassis on your own.

### Backplane-integrated Chassis

Ordering P/N	With Power Supply	With Backplane
IPC-623P4-300R	RPS-300V	PCA-6120P4
IPC-623P7-300R	RPS-300V	PCA-6119P7

### Chassis for Motherboards

Ordering P/N	With Power Supply
IPC-623MB-30X	PS-300X-DPS

### Barebone Chassis (with power supply but no backplane)

Ordering P/N	With Power Supply
IPC-623BP-300R	RPS-300V
IPC-623BP-400	PS-400-SPW
IPC-623BP-400R	RPS-400XV
IPC-623BP-40X	PS-400X-PRT

### Passive Backplane Options

B/P Model Name	Slots per Segment (ISA/PCI/CPU)	Segment
PCA-6120	20 ISA	Single
PCA-6120P4	15 / 4 / 1	Single
PCA-6119P7	11 / 7 / 1	Single
PCA-6119P10	8 / 10 / 1	Single
PCA-6119P17	1/17/1	Single

### Accessories

- RPM-300**  
Spare 300 W power module for the RPS-300V
- RPM-400**  
Spare 400 W power module for the RPS-400XV