IPC-644

4-slot MicroBox Desktop/Wallmount Chassis

1 System on Module Solutions

2 Single Board Computers and Accessories

3 PC/104 Modules

4 Slot CPU Cards and Accessories

5 AIMB/POS Control Boards

6 Internet Security Platforms

7 Embedded Software

8 Appx

Features

- Ultra-compact wallmount/desktop IPC chassis
- Equipped with a 4-slot ISA or PCI backplane to hold 4 half-size cards
- One front-access 3.5" FDD and one internal 3.5" HDD
- Two (9-pin and 25-pin) I/O ports
- Power on switch with connector
- One 49-CFM filtered cooling fan and one 14 CFM cooling fan
- Replaceable and easy to clean fan filters
- 80 W AC, 60 W AC, DC 24 V and DC 48 V power supply options

Introduction

The IPC-644 is an ultra-compact 4-slot mini node chassis, an ideal embedded application workhorse. The IPC-644 can be equipped with a 4-ISA or 1 ISA/2 PCI/ 1 NLX backplane to hold 4 half-size cards. It is also equipped with both the DC and AC power inputs. The IPC-644 is suited for environments found on boats and other vehicles on the go, and equally suited for indoor operation. Designed to offer optimal performance, it comes with two LED indicators on the front panel for DC power and HDD activity, to facilitate easy diagnostics and maintenance. It is also equipped with two controllers, for Reset and Power on/off switch. Disk drives include one 3.5" FDD and one internal HDD drive. Other features include versatile PCI/ISA-bus backplanes, two 9/25-pin I/O reserved ports, built-in 80 W power supply and two 49/19.4 CFM cooling fans to dissipate heat fast.

Specifications

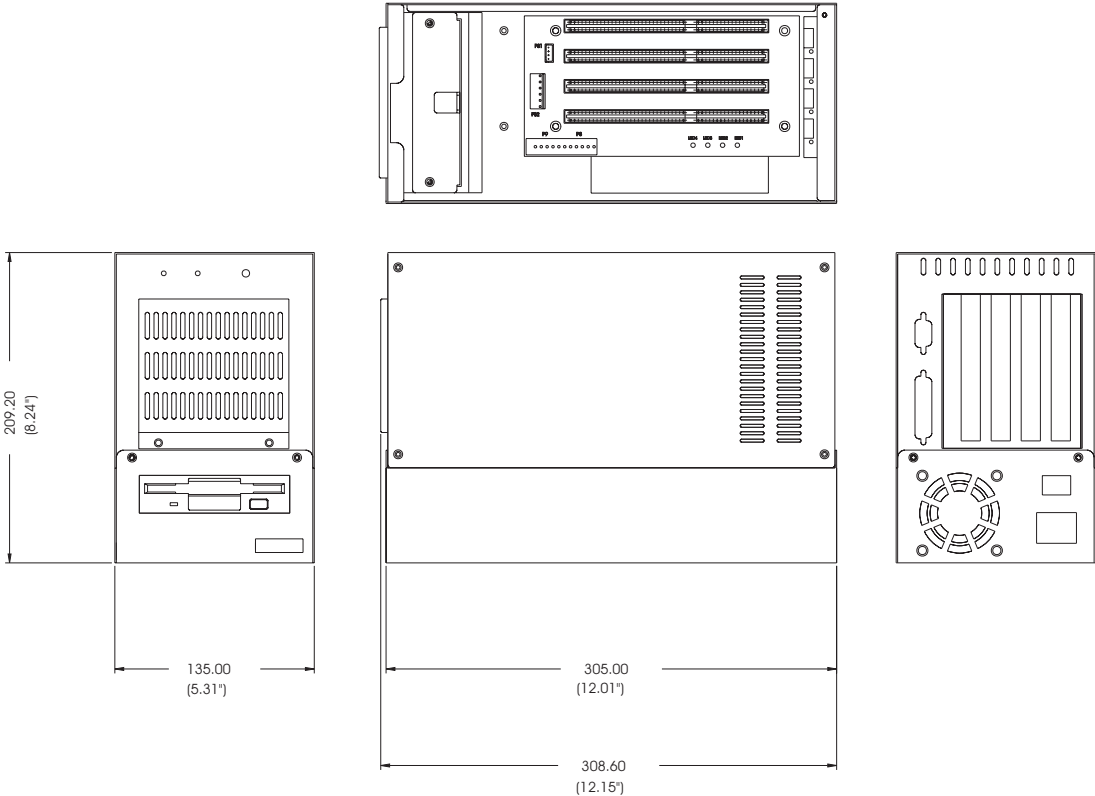|		Front-accessible	Internal
Drive Bay	3.5"	1	
	3.5"		1
Cooling	Fan	1 (49 CFM/each), 1 (14 CFM/each)	
Miscellaneous	Control	System reset, AC power On/Off switch	
	Indicator	LEDs for power On/Off and HDD activity	
	Speaker	One 8 W compact size speaker	
Environment	Temperature	0 ~ 50° C (32 ~ 122° F), operating	
	Humidity	10 ~ 95 % @ 40° C, non-condensing	
Physical	Dimensions (W x H x D)	135 x 208 x 305 mm (5.3" x 8.2" x 12")	
	Weight	3.8 Kg (8.4 lb)	

The IPC-644 is an ideal chassis for embedded systems. It can be equipped with 4-ISA, 4 PCI or 1ISA/2PCI/1NLX backplanes to hold up to 4 half-sized cards. An 80 W power supply is included.

Power Supply Options

Part Number		Specifications					
	Watt	**Input**	**Output**	**Mini-load**	**Safety**	**MTBF**	
PS-80	80 W	AC 85~264 V	+5 V @ 8 A +12 V @ 3.5 A -12 V @ 1 A	+5 V @ 0.7 A +12 V @ 0.3 A	UL/CSA/CE/ CB/BABT/ VDE/Nemko	50,000 hours	
OP-60P	60 W	AC 90 ~ 264 V	+5 V @ 5 A +12 V @ 2 A -12 V @ 0.5 A	--	CE/CB/CSA/TUV	100,000 hours 25 C full load	
OP-60P-D24	60 W	DC 18 ~ 32 V	+5 V @ 6 A +12 V @ 2.5 A -12 V @ 0.3 A	+5 V @ 0 A +12 V @ 0 A -12 V @ 0 A	--	--	
OP-60P-D48	60 W	DC 36 ~ 72 V	+5 V @ 6 A +12 V @ 2.5 A -12 V @ 0.3 A	+5 V @ 0 A +12 V @ 0 A -12 V @ 0 A	--	--	

Dimensions

Unit: mm (inch)

209.20
(8.24")

135.00
(5.31")

305.00
(12.01")

308.60
(12.15")

A 49 CFM cooling fan for easy-replacement and maintenance

Passive Backplane Options

B/P Model Name	Slot per Segment (ISA/PCI/CPU)	Segment
▪ **PCA-6104**	4 ISA	Single
▪ **PCA-6104P4**	4 PCI Single	

Ordering Information

Part Number	With PowerSupply	With Backplane	Regulation
▪ **IPC-644-80**	PS-80 PCA-6104	UL/CE/CUL	
▪ **IPC-644BP-80**	PS-80 --	UL/CE/CUL	
▪ **IPC-644P4-80**	PS-80 PCA-6104P4	UL/CE/CUL	
▪ **IPC-644BP-60**	OP-60P	--	CE
▪ **IPC-644BP-D24**	OP-60P-D24	--	CE
▪ **IPC-644BP-D48**	OP-60P-D48	--	CE