Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

IPC-100-60SE

1U Compact Fanless System with Intel® Atom™ N450 on Board

Features

- Elegant, ultra-compact fanless system
- Built-in Intel® Atom™ processor N450 1.66 GHz
- Comprehensive I/O: dual gigabit Ethernet, 8 USB, 3 COM, 1 VGA
- 1 PCI and 1 mini-PCIe expansion slots
- Open frame AC to +12 V$_{DC}$ 60 W power supply
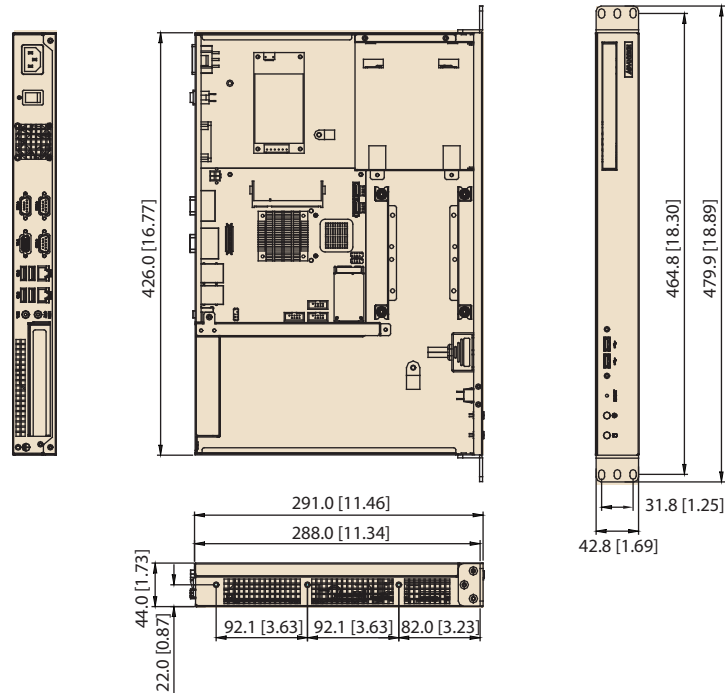- Anti-vibration design for 2.5" HDD-bay to ensure maximum reliability

Specifications

Processor System	CPU	Intel Atom Processor N450 1.66 GHz	
	L2 Cache	512 KB	
	Chipset	ICH8M	
	BIOS	AMI 16 MB SPI	
Memory	Technology	Single Channel DDR2 667MHz	
	Max. Capacity	200-pin SODIMM x1 up to 2 GB	
Expansion Slot	PCI	1 (32-bit/33 MHz) via PCI riser card (P/N: 989KC1000E)	
	Mini-PCIe	1	
Graphics	Chipset	Embedded Gen3.5+ GFX Core	
	Display Memory	Shared system memory up to 224 MB SDRAM	
	VGA	Supports up to SXGA 1400 x 1050 @ 60 Hz	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	GbE LAN1: Intel 82567V; GbE LAN2: Intel 82583V	
	Connector	2 x RJ-45 connectors	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec/min	
Storage Interface	2.5" HDD Bay	1 (SATA)	
	slim ODD	1 (SATA)	
I/O Interface	USB	8 (4 on rear, 2 on front, 2 internal)	
	Serial	3 (1 of RS-232/422/485, 2 of RS-232)	
	Ethernet	2	
	Audio	2 (Mic-in, Line-out)	
	VGA	1	
Miscellaneous	LED Indicators	Power, HDD	
	Control	AT power switch (on rear), system reset button (on front)	
Environment		Operating	Non-operating
	Operating Temp.	0 ~ 40° C (32 ~ 104° F)	-20 ~ 60° C (-4 ~ 140° F)
	Operating Humidity	10 ~ 85% @ 40° C, non-condensing	10 ~ 95% @ 40° C, non-condensing
	Vibration (5~500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
Physical Characteristics	Dimensions (W x H x D)	480 x 44 x 288 mm (19" x 1.7" x 11.4")	
	Net Weight	3.6 kg / 7.92 lb	

* The motherboard only supports 2 SATA connectors.

* If IPC-100 is operated in an environment without any air flow, the environmental temperature should be no higher than 25° C.

Dimensions

Unit: mm [inch]

426.0 [16.77]

464.8 [18.30]
479.9 [18.89]

31.8 [1.25]

42.8 [1.69]

291.0 [11.46]
288.0 [11.34]

44.0 [1.73]
22.0 [0.87]

92.1 [3.63]   92.1 [3.63]   82.0 [3.23]

System Ordering Information

Part Number	CPU	Power supply	Expansion	Display	SATA	USB	COM	Audio
IPC-100-60SE	Intel Atom N450 1.66 GHz	AC to DC +12 V 60 W	1 x PCI (optional) 1 x Mini PCIe	VGA	2	8	3	2

Front View

HDD   Dual USB
Power Reset

Slim ODD

Inside View

Motherboard   60 W power supply

PCI expansion via riser card

Slim ODD

2.5" HDD

Packing List

Description	Quantity
IPC-100 system	x 1
SATA power cable for HDD	x 1
SATA signal cable for HDD & slim ODD	x 2
SATA power cable for slim ODD	x 1
Mounting bracket	x 2
User manual	x 1
Driver CD	x 1
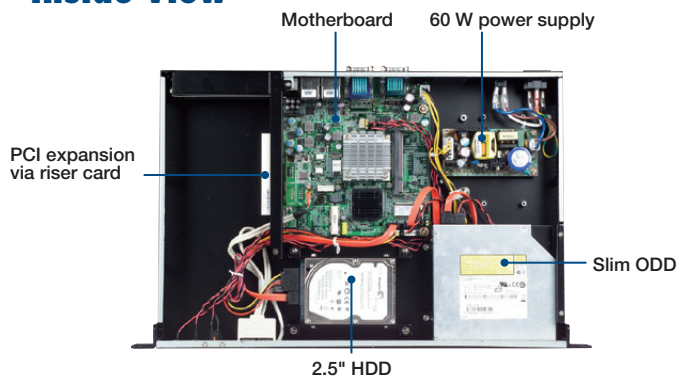
Optional Accessories

Part Number	Description
989KC10000E	1U riser card for 1 PCI expansion

Rear View

AC power switch

COM

Dual GbE
Line out

VGA

Mic in

AC inlet

USB ports

Expansion slot