

# SYS-4U4320-MR01E

**EN60945 Compliant  
4U System for Maritime  
Applications**



## Features

- EN60945 Compliant
- Intel® Q87 Platform
  - 4th Gen Intel® Core™ i (LGA1150)
- Expansion Capability
  - 4 PCI, 5 PCIe, expansion slots
- Thoughtful and Management Design
  - Fan based thermal management
  - EN60945 compliant
  - Lockable front door prevents tampering
  - System alarm notification by front LED indicators

### Software APIs:



Watchdog



H/W Monitor



GPIO

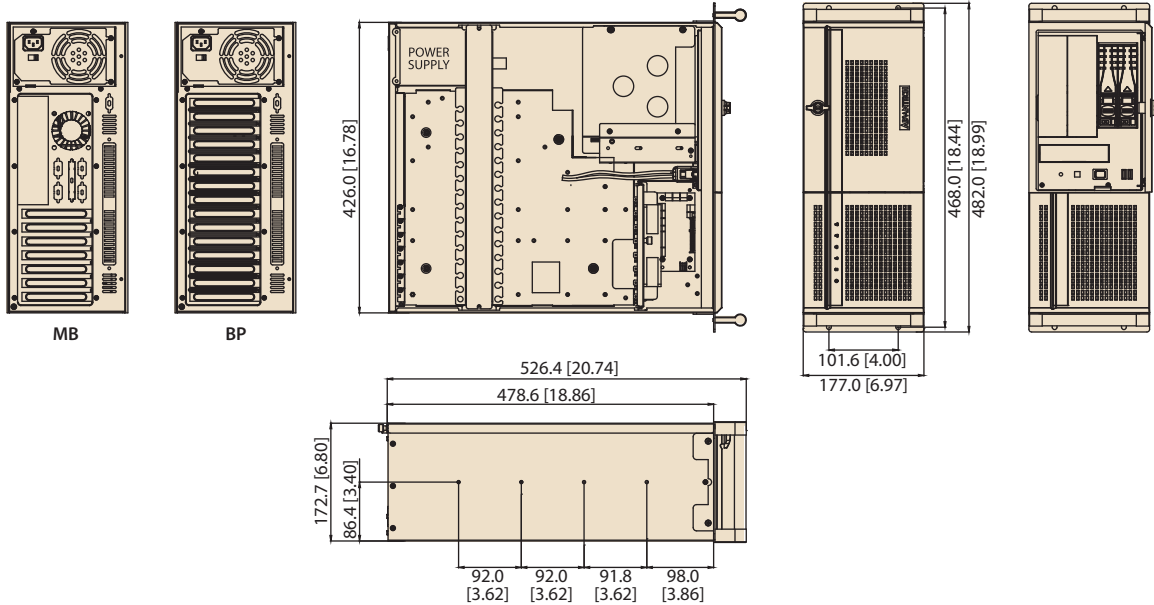


## Specifications

Processor System	CPU	Intel® Core i7/i5i3 LGA1150 Processors
	BIOS	AMI 128 Mbit SPI
	System Chipset	Intel Q87
	Memory Type	DDR3 1333/1600 MHz, up to 16GB
	Power Supply	400W SPS Power Supply AC 100-240V
Expansion Slot	PCIe x4	4
	PCIe x16	1
	PCI	4
Drive Bay	5.25" (Front-accessible)	2
	3.5"/2.5" (Front SAS/SATA HDD tray)	2
Rear I/O	VGA	1
	USB	1 USB 3.0
	PS/2	1
	Ethernet	2 x RJ-45
Internal Connector	USB	9 x USB 2.0, 2 x USB 3.0
	SATA	6
	DVI-D pin header	2
	COM	2
	Parallel	1
	IrDA	1
	GPIO	8-bit
Display	Controller	Intel HD Graphics
	VRAM	Shared system memory
Graphics	Controller	LAN 1: Intel I217LM LAN 2: Intel I211AT
	Interface	10/100/1000 Mbps
Ethernet	Chassis FAN	1 (12 cm / 114 CFM) + 1 (6 cm / 28 CFM)
	LED indicators	PWR, HDD, Fan, Temperature, LAN1, LAN2
Cooling	Control	PWR ON/OFF, System Reset Switch, Alarm Reset Switch
Mechanical & Environmental	USB	2 x USB 2.0
	Operating Temperature	0° C to 40° C (32° F to 113° F)
	Operating Humidity	10% to 85% @ 40° C relative humidity, non-condensing
	Vibration	0.5 Grms
	Size (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")

## Dimensions

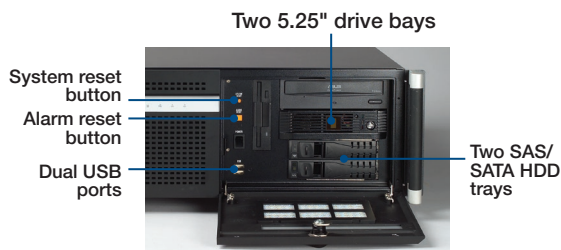
Unit: mm [inch]



## System Content

Part Number	Description
ACP-4320BP-00XE	4U chassis for PICMG1.3 BP
XSCH-B001120414	PS/2 A/D 100-240V 400W ATX
PCE-5128G2-00A1E	LGA1150 Intel Q87 Core i7/i5/i3/Pentium SHB DDR3/SATA III/USB 3.0/Dual GbE/3 Displays
PCE-5B10-04A1E	10 Slots PICMG1.3BP,5PCIE,4PCI,ROHS
1960047670N001	Cooler I-LGA1156 S-95W 120X120X77-PP 12V0.4A 50° C

## Front View



## Inside View

Easy-to-maintain system fan

