



Fanless Box-PC 3140E

PKBX5091/-2/-3

Utilizing the Intel® GM45 chipsets, the Fanless Box-PC 3140 is highly scalable supporting a wide variety of Intel Core™ 2 Duo and Celeron® processors. Using the Intel® graphics media accelerator 4500MHD, the rugged the Fanless Box-PC 3140 delivers exceptional graphics performance with notable rates of data transfer. The Fanless Box-PC 3140 provides a number of important features required by image processing operation, including dual-channel DDR3 memory, two Gigabit Ethernet LANs, auto-direction control on RS485 interface. On top of that, the

Fanless Box-PC 3140 supports dual independent displays through 2x VGA, DVI or LVDS outputs. Housed in a robust aluminum chassis, the Fanless Box-PC 3140 of fanless design offers noise-free, ultra reliable operating in the most demanding of industrial environment. The Fanless Box-PC 3140 series is an idea system for industrial automation, machine automation, Automated Optical Inspection (AOI), visual inspection, video surveillance, image mapping and face recognition markets.



Main Features

- Support Intel® Core™ 2 Duo/Celeron® processor
- Intel® GM45 chipset
- Dual Intel® 82574L Gigabit Ethernet ports
- Dual VGA or VGA/DVI independent display
- 3x RS232 and 1x RS232/422/485 with auto direction control
- One external locked CF socket
- On-board DC to DC power design to support 16 to 30VDC power input
- Support ATX power mode and PXE/WOL/LAN Teaming

Technical Specifications

Main Board

- Support Intel Core 2 Duo Processor P8400 (3M Cache, 2.26GHz, 1.066MHz FSB)
- Support Intel Celeron Processor 575 (3M Cache, 2.00GHz, 667MHz FSB)

Main Memory

- 2x 240-pin DIMM, up to 4GB DDR3 800/1.066MHz SDRAM, unbuffered and non-ECC

Chipset

- Intel® GM45 Graphics and Memory Controller Hub
- Featuring the Mobile Intel® Graphics Media Accelerator 4500MHD
- Intel® 82801IBM I/O controller hub

Expansion

- One PCIe x1 expansion
- Max. Support Add-on Card Length: 169 mm

Device

- 1x 2.5" SATA HDD drive bay and 1x external locked CF card socket

I/O Interface-Front

- ATX power on/off switch
- HDD Access/Power status LED
- 1x front access CF Card socket, 2x USB 2.0 ports

I/O Interface-Rear

- 2-pin remote power on/off switch
- 16 to 30VDC input
- 1x PS/2 for Keyboard/Mouse
- 1x DB25 Parallel Port (Optional GPIO or LVDS interface)
- 1x DB44 Serial Port for 4x RS232 (COM2: RS232/422/485 with auto flow control)
- 2x Gbe LAN ports
- 4x USB 2.0 ports
- 1x DB15 VGA port
- 1x DVI-I Port (DVI-D and VGA)
- 1x Speaker-out and Line-in

Power Requirements

- ATX power mode
- On-board DC to DC power support from 16 to 30VDC
- Optional power adapter

Dimensions and Construction

- 195 x 268 x 80 mm (W x D x H)
- Aluminum chassis with fanless design

Environment

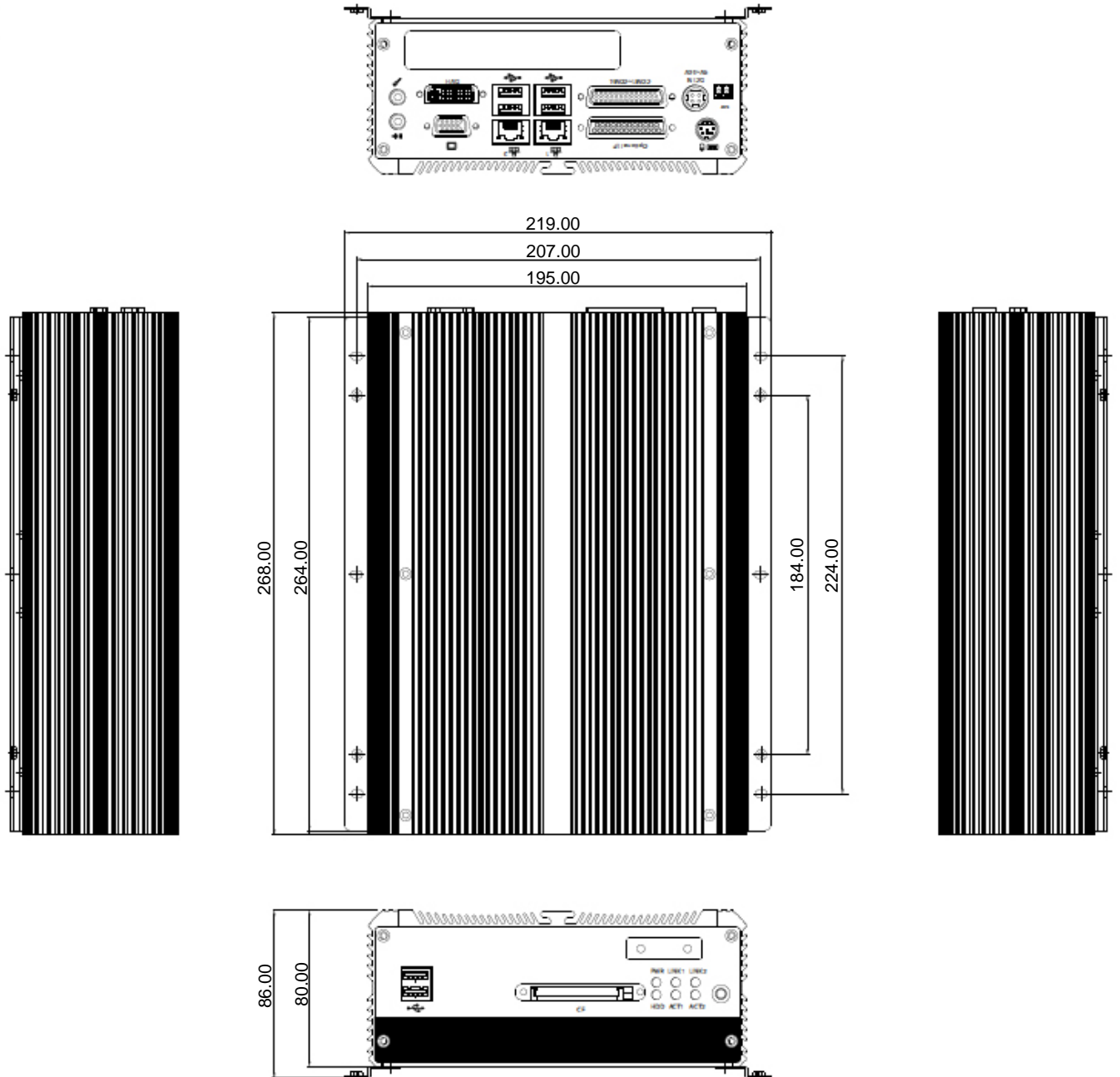
- Operating Temperature: Ambient with air flow: -5°C to 55°C (According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 93% (non-condensing)

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Dimension Drawing



Ordering Information

PKBX5091 Fanless Box-PC 3140E Barebone w/o CPU with one PCI express expansion slot

PKBX5091-2 Fanless Box-PC 3140E P8400 Core2Duo Mobile 2.26G with one PCI express expansion slot

PKBX5091-3 Fanless Box-PC 3140E M575 Celeron 2GHz with one PCI express expansion slot