

Fanless Box-PC 3140M2

PKBX5094-5/-6/-7/-8



Utilizing the Intel® GM45 enhanced chipsets, the Fanless Box-PC 3140M2 is highly scalable supporting a wide variety of Intel Core™ 2 Duo and Celeron® processors. Using the Intel® graphics media accelerator 4500MHD, the rugged Fanless Box-PC 3140M2 delivers exceptional graphics performance with notable rates of data transfer. The Fanless Box-PC 3140M2 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 and optional IEEE1394b interface. On top of that, the Fanless Box-PC 3140M2 supports dual independent displays through 2x VGA, DVI or LVDS outputs. Housed in a robust aluminum chassis, the Fanless Box-PC 3140M2 of fanless design offers noise-free, ultra reliable operating in the most demanding of industrial environment. The Fanless Box-PC 3140M2 is compliant with EN60601-1, a standard for medical grade computing system. In addition to industrial applications, the Fanless Box-PC 3140M2 series also a perfect solution for healthcare equipments such as surgery recording system, medical inspection, medical research instrumentations, security control etc.



Front Side



Rear Side

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
- Dual IEEE1394b ports
- 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 P8600 (3M Cache, 2.40GHz, 1.066MHz FSB)
- Support Intel® Core™ 2 Duo Processor P8400 (3M Cache, 2.26GHz, 1.066MHz FSB)
- Support Intel® Celeron® Processor 575 (1M 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

Device

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

Expansion

- Two PCI expansions
- Max. support add-on card length: 169 mm

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
- Dual IEEE1394b 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 101 mm (W x D x H)
- Aluminum chassis with fanless design



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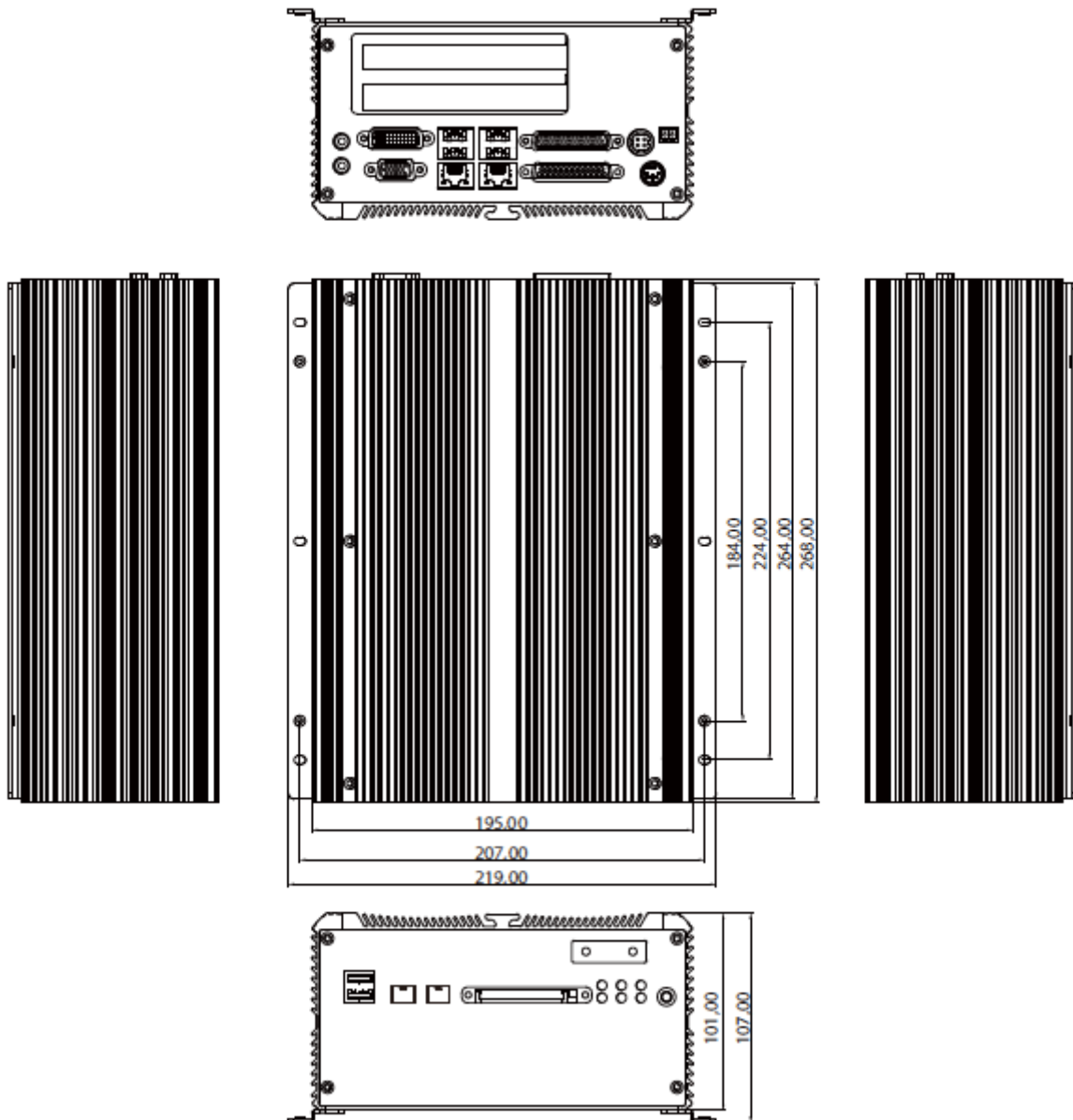
Environment

- 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)

Certifications

- EN60601 Compliant
- CE approval
- FCC Class B

Dimension Drawing



Ordering Information

PKBX5094-5 Fanless Box-PC 3140M2 Barebone Core2Duo/Celeron with two PCI expansion slots, 2x IEEE1394	PKBX5094-7 Fanless Box-PC 3140M2 P8400 Core2Duo Mob. 2.26GHz with two PCI expansion slot, 2x IEEE1394
PKBX5094-6 Fanless Box-PC 3140M2 P8600 Core2Duo Mobile 2.4GHz with two PCI expansion slots, 2x IEEE1394	PKBX5094-8 Fanless Box-PC 3140M2 M575 Celeron 2.0GHz with two PCI expansion slot, 2x IEEE1394