



Fanless Box-PC 3144

PKBX5096/-2/-3

The Fanless Box-PC 3144 is designed specifically aims at high speed image-processing applications integrated such as video streaming, video surveillance, image mapping, visual inspection and face/feature recognition. Based on the Intel® GM45 chipsets, the Fanless Box-PC 3144 is highly scalable supporting a wide variety of Intel® Core™ 2 Duo and Celeron® processors and also delivers high graphic performance with notable rates of data transfer. The Fanless Box-PC 3144 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, optional IEEE1394b interface and 4x PoE ports. On top of that, the Fanless Box-PC 3144 supports dual

independent displays through 2x VGA, DVI or LVDS outputs. Housed in a robust aluminum chassis, the Fanless Box-PC 3144 of fanless design offers noise-free, ultra reliable operating in the most demanding of industrial environment. The Fanless Box-PC 3144 integrated with PoE solution ease the difficulties of providing different power sources for devices such as IP camera in buses/police cars/ sightseeing bus/school bus, VoIP telephones, RFID and so on. Thus, the Fanless Box-PC 3144 is an ideal industrial solution for Inspection and surveillance applications by utilizing PoE power devices, for example, security control by PoE enable IP camera, logistic management by PoE enable RFID reader or Ethernet communication by PoE enable IP phones.



Main Features

- Support Intel® Core™ 2 Duo/Celeron® processor
- Intel® GM45 chipsets
- 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 (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 4.500MHD
- Intel 82801 IBM I/O Controller Hub

Storage Device

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

Expansion

- One PCI expansion
- max. support Add-on card Length: 169mm

I/O Interface Front

- ATX power on/off switch
- HDD Access/Power status LEDs
- 1x front access CF card socket
- 2x USB2.0 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 USB2.0 ports
- 1x DB15 VGA port
- 1x DVI-I port (DVI-D and VGA)
- 1x Speaker-out and Line-in
- 4x ports PoE

Supported OS

- Windows NT/XP
- Linux Kernel 2.4 and 2.6

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Highlights on PoE ports

- IEEE802.3af compliant, deliver 15.4W per port
- Unmanaged switch function
- IEEE802.3 10 Base-T and 100 Base-Tx compatible
- Full or half duplex at 10/100 Mbps
- IEEE 802.3u Auto-negotiation supported
- Transfer performance: 14.880pps for Ethernet and 148.800pps for Fast Ethernet
- Transfer packet size: 64 to 1.522bytes

Power Requirements

- ATX power mode
- Onboard 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)
- Aluminium Chassis with fanless design

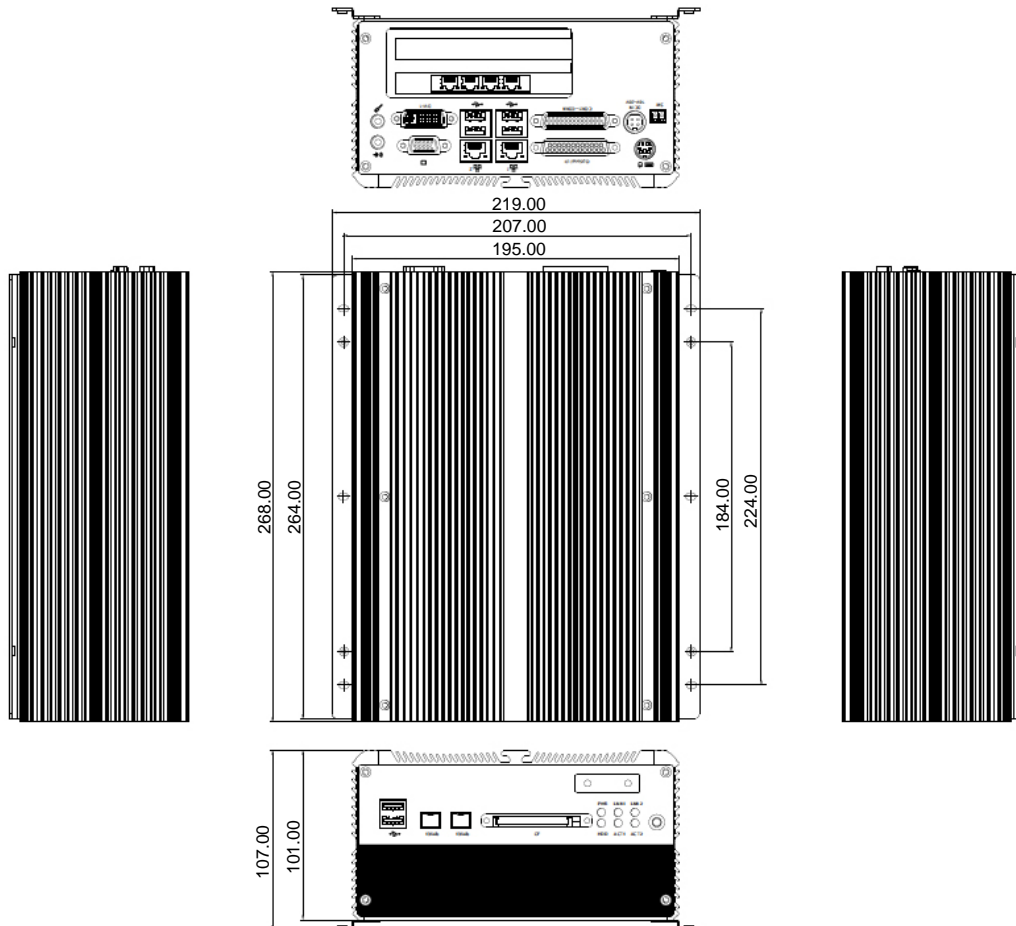
Environment

- Operating temperature:
Ambient with air flow: -5°C to 50°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

- CE approval
- FCC Class A

Dimension Drawing



Ordering Information

PKBX5096	Fanless Box-PC 3144 Barebone Core2Duo/Celeron with IEEE1394b, 4x PoE interfaces and 1x PCI	PKBX5096-2	Fanless Box-PC 3144 P8400 Core2Duo 2.26GHz with IEEE1394b, 4x PoE interfaces and 1x PCI
PKBX5096-3	Fanless Box-PC 3144 M575 Celeron 2GHz with IEEE1394b, 4x PoE interfaces and 1x PCI		