

# Box-PC 3144F

## PKBX5097/-1/-3/-4



The Box-PC 3144F with PoE enable computer integrated with smart fan design. For those higher power consumption power devices, the Box-PC 3144F provides a smart solution to programming the fan speed based on the environment thermal condition. The Box-PC 3144F provide the user friendly design on replacing a new fan without opening the whole system. The Box-PC 3144F is design specially to meet high performance-oriented demand, for example, Intel T9400 processor, 2x HDD as the RAID function or 4x PoE class 3 power device. The Box-PC 3144F 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 Box-PC 3144F supports dual independent displays through 2x VGA, DVI or LVDS outputs. With smart fan design in the Box-PC 3144F, it provides the flexibility for high computing and high power demand in industrial environment. The Box-PC 3144F 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 Box-PC 3144F 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 audio direction control
- One external locked CF socket
- 4x PoE ports
- Dual IEEE1394b ports
- 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 T9400 (6M Cache, 2.53GHz, 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 4.500MHD
- Intel 82801 IBM I/O Controller Hub

#### Storage Device

- 2x 2.5" SATA HDD drive bay (RAID 0 and 1 are supported)
- 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

### Smart Fan

- Two smart programmable fans
- Sound level on fan: 42dB(A) at 100% and 20db at 0%-20%

### Power Requirements

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

### Dimensions and Construction

- 235 x 268 x 101 mm (W x D x H)
- Aluminium Chassis with fanless design

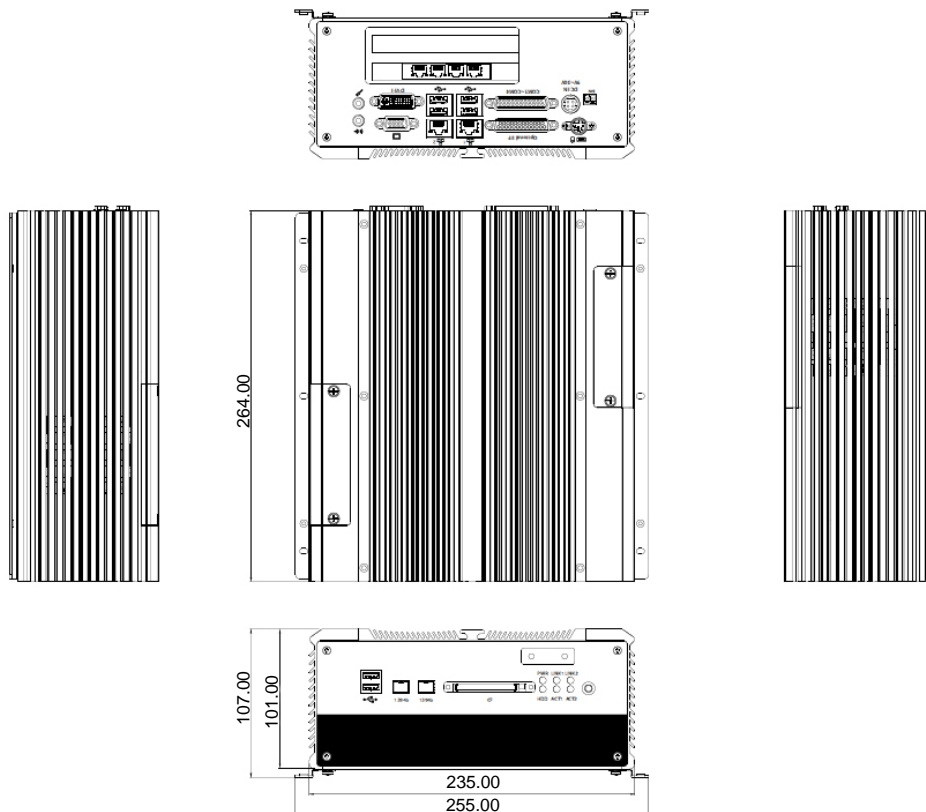
### Environment

- 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

PKBX5097	Box-PC 3144F Barebone Core2Duo/Celeron with IEEE1394b, 4x PoE interfaces, 1x PCI, FAN	PKBX5097-1	Box-PC 3144F T9400 Core2Duo 2.53GHz with IEEE1394b, 4x PoE interfaces, 1x PCI, FAN
PKBX5097-3	Box-PC 3144F P8400 Core2Duo Mobile 2.26GHz with IEEE1394b, 4x PoE interfaces, 1x PCI, FAN	PKBX5097-4	Box-PC 3144F M575 Celeron 2GHz with IEEE1394b, 4x PoE interfaces, 1x PCI, FAN