

Fanless Box-PC 1000

PKBX5410/5411



The Fanless Box-PC 1000 series are designed for, but not limit to, multi-function system with various connections in automatic fare collection applications requiring scalable computing capability, fanless operating, lower power use, extreme reliable and rugged system, flexible I/O configuration with long product life support. Designed to offer maximum computing power in the most efficient footprint possible, the Fanless Box-PC 1000 offer a range of Pentium® M/Celeron® M processor, SATA storage with HDD or SSD and

comprehensive interface support featuring dual display, LVDS and VGA, and audio, 4x RS232, 2x RS232/422/485, 1x 10/100/1.000 LAN port, 2x PS/2 for keyboard and mouse, and 4x USB port in 24VDC input support. The Fanless Box-PC 1000 supports 24Ch digital input and 24Ch digital output which makes the Fanless Box-PC 1000 ideal for AGM system (Automatic Gate Machine) including gate control, access controller, parking entrance, and information communication.



Main Features

- Support Intel® Pentium® M/Celeron® M processor
- Intel® 910GML chipsets
- 1x 1.000/100/10 Mbps LAN port
- 4x USB2.0/VGA/LVDS/Audio
- 2x RS232/422/485 and 4x RS232 via DB44 connector

- 24Ch Digital Input and 24Ch Digital Output non-isolated
- On-board DC to DC power design to support 24VDC power input
- Support ATX power mode and PXE
- 1x PCI expansion

Technical Specifications

CPU Support

- Support Intel® Pentium® M/ Celeron® M processors
- 400MHz FSB support

Chipset

- Intel® 910GML and Intel® ICH6M

Main Memory

- 1x 240 pin DIMM socket, up to 1 GB unbuffered non-ECC non-registered DDR2 SDRAM

Graphic

- Display interface
 - CRT: External DB15 CRT interface
 - LVDS: DB44 pin connector for dual pixels LVDS interface
- Dual Display
 - Independent: Different images and native display timings on each display
 - Simultaneous: Same images and native display timings on each display

Expansion

- 1x PCI slot

I/O Interface Front

- 1x HDD status LED (Yellow); 1x Power LED (Green)
- 1x Power on/off switch

I/O Interface Rear

- 1x HDD status LED (Yellow); 1x Power status LED (Green)
- 1x 24VDC-in power input connector, 2-pin terminal screw
- 1x DB44 connector for 4 serial ports (COM3 to COM6, support RS232 only)
- 2x DB9 connectors for two serial ports (COM1 and 2, support RS232/422/485)
- 1x DB44 connector for LVDS
- 1x RJ45 10/100/1.000 Ethernet LAN port
- 4x USB2.0
- 1x VGA DB-15 connector
- 2x PS/2 connectors (KB/MS)
- 1x MIC-In; 1x Line-out
- 1x knockout for PCI add-on card
- 1x 2-pin connector output for remote power on/off switch

Digital IO

- 24Ch non-isolated Digital Input, two Ch come with interrupt support
- 24Ch non-isolated Digital Output
- Buffered inputs and outputs offer high driving capacity 32 mA
 - Logic input high voltage: 2.0 to 5.25V
 - Logic input low voltage: 0.0 to 0.80V
 - Logic output high voltage: 2.4V min.
 - Logic output low voltage: 0.4V max
- 1x DB44 connector for 24Ch Input in rear panel
- 1x DB44 connector for 24Ch Output in rear panel

Storage

- 1x Internal CompactFlash socket and 1x 2.5" HDD drive bay
- 1x NVRAM socket

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Power Requirements

- Power type: ATX mode DC Input
- Input voltage range: 24VDC
- Optional 24V, 100W power adapter

Verified OS

- Windows XP
- Windows XPe
- WinCE 6.0 BSP
- Linux-Fedora Core 6 and Core 9

Dimensions and Construction

- 260 x 197 x 98.7 mm (W x D x H)
- Aluminium chassis with fanless design

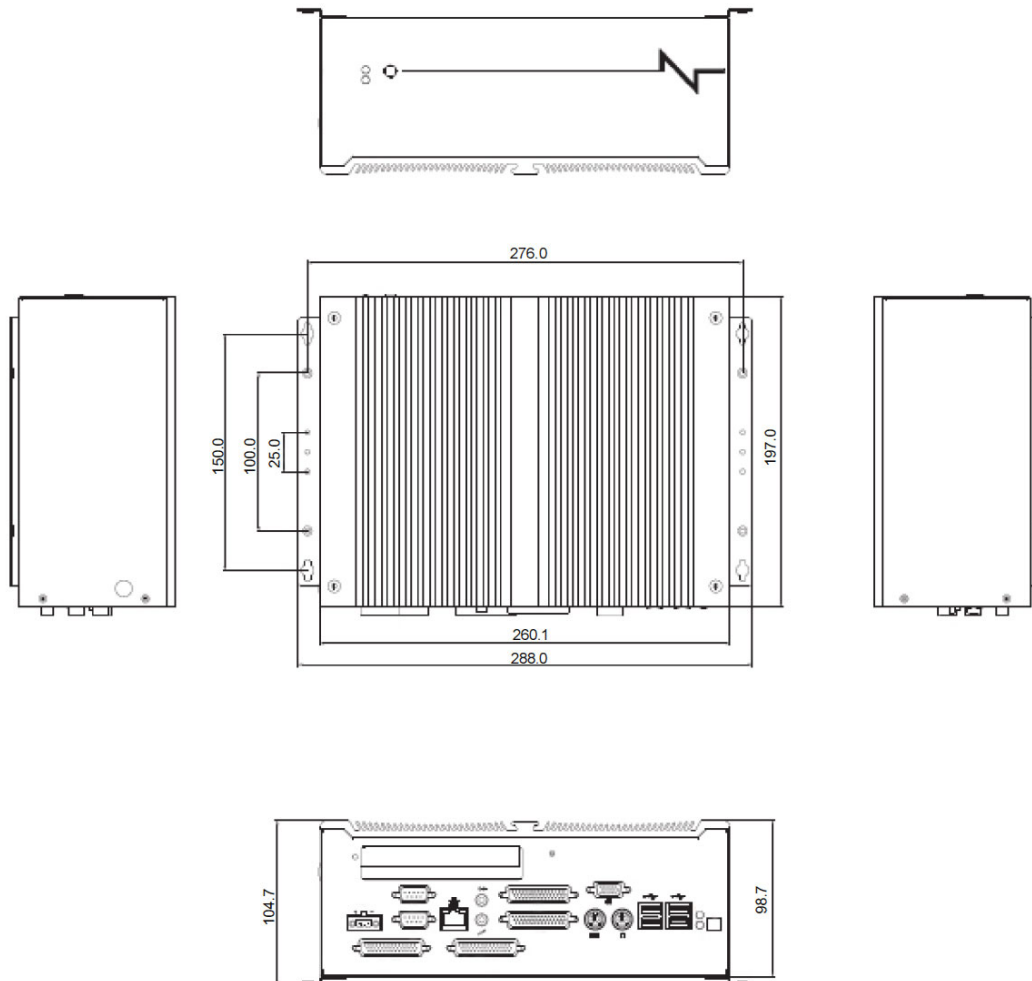
Environment

- Operating Temperature: Ambient with air flow: -5°C to 45°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

PKBX5410 Fanless Box-PC 1000 Barebone System
6x COM, 48ch DIO, NVRAM, PCI-Slot

PKBX5411 Fanless Box-PC 1000-C65 w/ULV Celeron M, 600MHz
6x COM, 48ch DIO, NVRAM, PCI-Slot