

Fanless Box-PC 1020

PKBX5420



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. The Fanless Box-PC 1020 system includes application ready platform with multiple serial ports, max. 14x serial ports. Featuring Intel® Celeron® M/Pentium® M processor with protected housing, the Fanless Box-PC 1020 comes with multiple I/O support featuring 12x RS232, 2x RS232/422/485,

dual independent display in LVDS and VGA, 1x Gbe LAN, 4x USB and audio interface. From expansion wise, there are one PCI expansion, one CF socket, one 2.5" SATA HDD space and 1G DDR2 memory DIMM. With rich and multiple interfaces, the Fanless Box-PC 1020 is widely used in the application of Passenger Information and Direction system, Automatic Fare Collection, Ticking Vending Machine, Ticket Vending Machine, Add Value Machine), automatic pay machine, ATM banking machine, POS and Kiosk.



Main Features

- Support Intel® Pentium® M/Celeron® M processor
- Intel® 910GML chipsets
- One 1.000/100/10 Mbps LAN port
- 4x USB2.0/VGA/LVDS/Audio
- 2x RS232/422/485 and 12x RS232 via 3x DB44 connector

- On-board DC to DC power design to support 24VDC power input
- Support ATX power mode and PXE
- One PCI expansion

Technical Specifications

CPU Support

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

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
- 3x DB44 connector for 12 serial ports (COM3 to COM14, support RS232 only)
- 2x DB9 connectors for 2 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

Storage

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

Power Requirements

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

Verified OS

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

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Dimensions and Construction

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

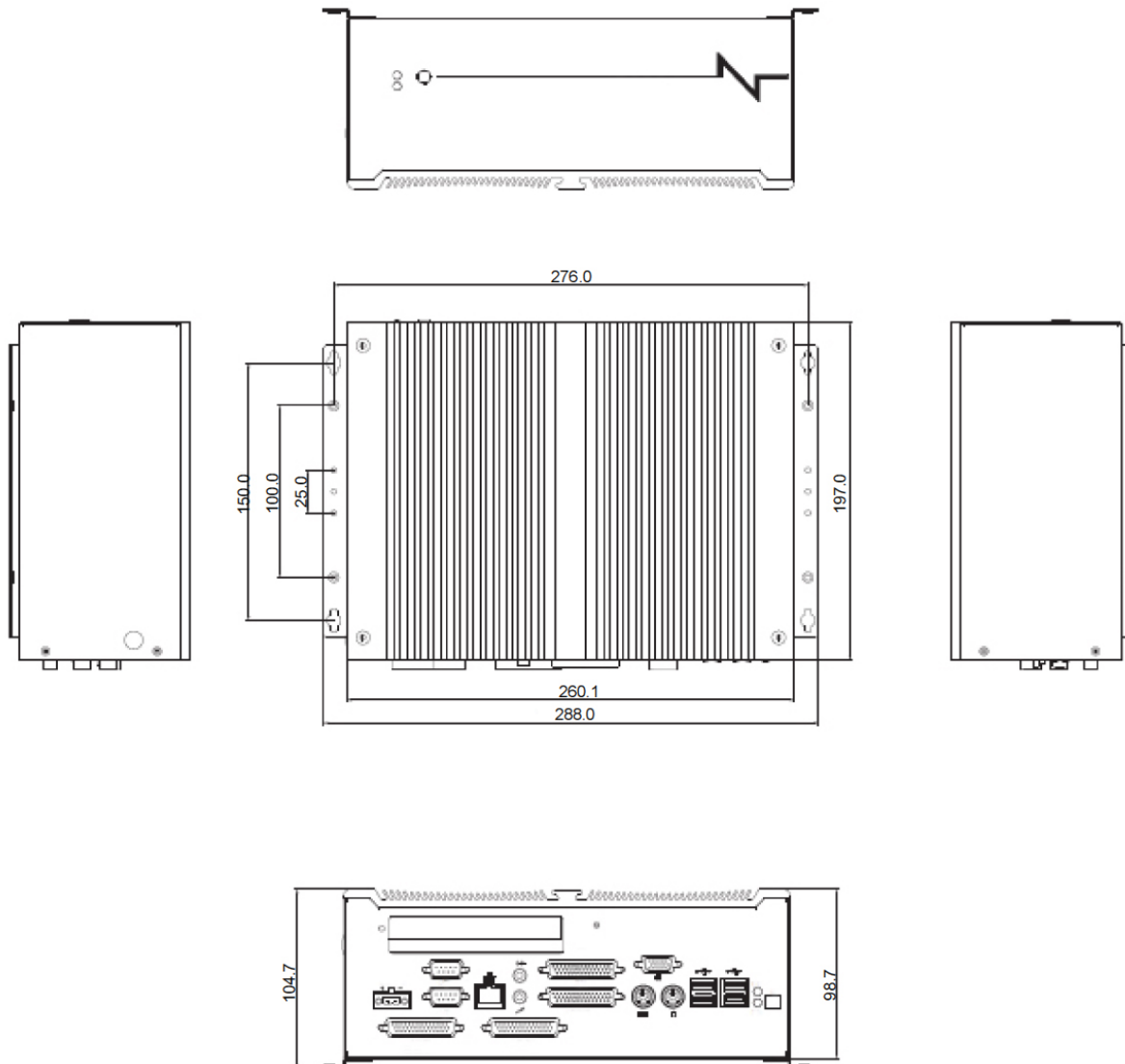
Certifications

- CE approval
- FCC Class A

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)

Dimension Drawing



Ordering Information

PKBX5420 Fanless Box-PC 1020 Barebone System
14x COM, NVRAM, PCI-Slot