

Fanless Box-PC 3270

PKBX5210/5211



Designed for industrial automation applications, the Fanless Box-PC 3270 fanless system is built with aluminum chassis and is configured with onboard Intel® Atom™ N270 1.6GHz with 533MHz FSB processor. The Fanless Box-PC 3270 is rich in I/O with four serial ports - two of them are RS422/RS485 ports with Automatic Flow Control, ±15 KV ESD protection, and isolation voltage of up to 2000VDC. Moreover, the Fanless Box-PC 3270 has VGA, LPT, and audio interface onboard. In terms of power supply, the Fanless Box-PC 3270 accepts a wide range of input DC voltages from +9 to +36VDC. The Fanless Box-PC 3270 is highly expandable. It has an optional NVRAM socket

reserved for memory backup SRAM. Additionally, the Fanless Box-PC 3270 has a CF socket and supports PC cards (PCMCIA). For further system expansion, an optional 2nd tier expansion kit, available through ODM or special request, can be installed. Typical utilization of 2nd tier space on top of the original base enclosure includes a slim-type CD-ROM, PC/104, PCI 104 or PC/104 Plus modules that offer customer-defined I/Os. With features above, the Fanless Box-PC 3270 with Intel® Atom™ based platform is a great entry-level industrial automation system offering great value and strong performance.



Main Features

- Onboard Intel® Atom™ N270 processor, 1.6GHz
- 2x RS232 and 2x RS422/485 (Automatic flow control and isolation)
- Type I/II PC card (PCMCIA)
- PC/104+ connectors for both PCI and ISA interface
- CompactFlash socket, VGA, USB port, LPT, KB, MS, Ethernet and Audio
- Single DC input supply voltage from 9 to 36VDC
- Optional chassis upgrade kit with easy expansion solution
- NVRAM socket reserved for optional memory backup SRAM

Technical Specifications

Main Board

- Supports ETX Module with Intel® Atom™ Processor, VGA/ISA/PCI/IDE/LVDS/Audio/COM/LPT/USB2.0/LAN Interface

Main Memory

- 1x 200-pin SODIMM socket for up to 1GB non-ECC non-registered DDR 400/523 SDRAM memory

Device

- 1x front access PCMCIA socket, 1x NVRAM socket
- 1x internal CompactFlash socket, 1x internal 2.5" HDD drive bay

I/O Interface-Front

- Power/HDD Status LEDs
- 2 LEDs, connect to GPIO, programmable for alarms or other purposes defined by developer
- 1x PCMCIA Socket
- Serial ports (Support RS-232)
 - 1x screw terminal for COM3 and COM4 support RS 422/485 (Automatic flow control and Isolation up to 2000VDC)
- 2x USB 2.0 ports

I/O Interface-Rear

- 2x 10/100 Ethernet LAN
- 2x USB 2.0 ports, 1x Keyboard/Mouse, 1x DB15 VGA
- 9 to 36VDC power Input
- Power reset button
- 1x Audio-out and 1x Mic-in connector
- 1x parallel port

Expansion

- 1x PCI expansion (PCMCIA)
- The Fanless Box-PC 3270 system design offers a expansion kit which is available upon ODM request. Typical utilization of 2nd tier space on top of original base enclosure could include a slim type CD-ROM or PC/104, PCI 104 or PC/104+ modules with defined I/Os. The maximum height of the expansion kit combined with base enclosure is around 2U.
- PC/104 (ISA), PCI 104(PCI) or PC/104 Plus module w/ defined I/O output

Dimensions

- 260 x 176 x 55 mm (W x D x H)

Environment

- Operating Temperature (Ambient with air flow):
 - 5°C to 40°C (w/HDD)
 - 10°C to 50°C (w/CF Card only)
- Tcase (Surface Temperature of chassis)
 - 5°C to 45°C (w/HDD)
 - 10°C to 50°C (w/CF Card only)
- Storage Temperature: -20°C to 80°C
- Relative Humidity: 10% to 90% (non-condensing)

Certifications

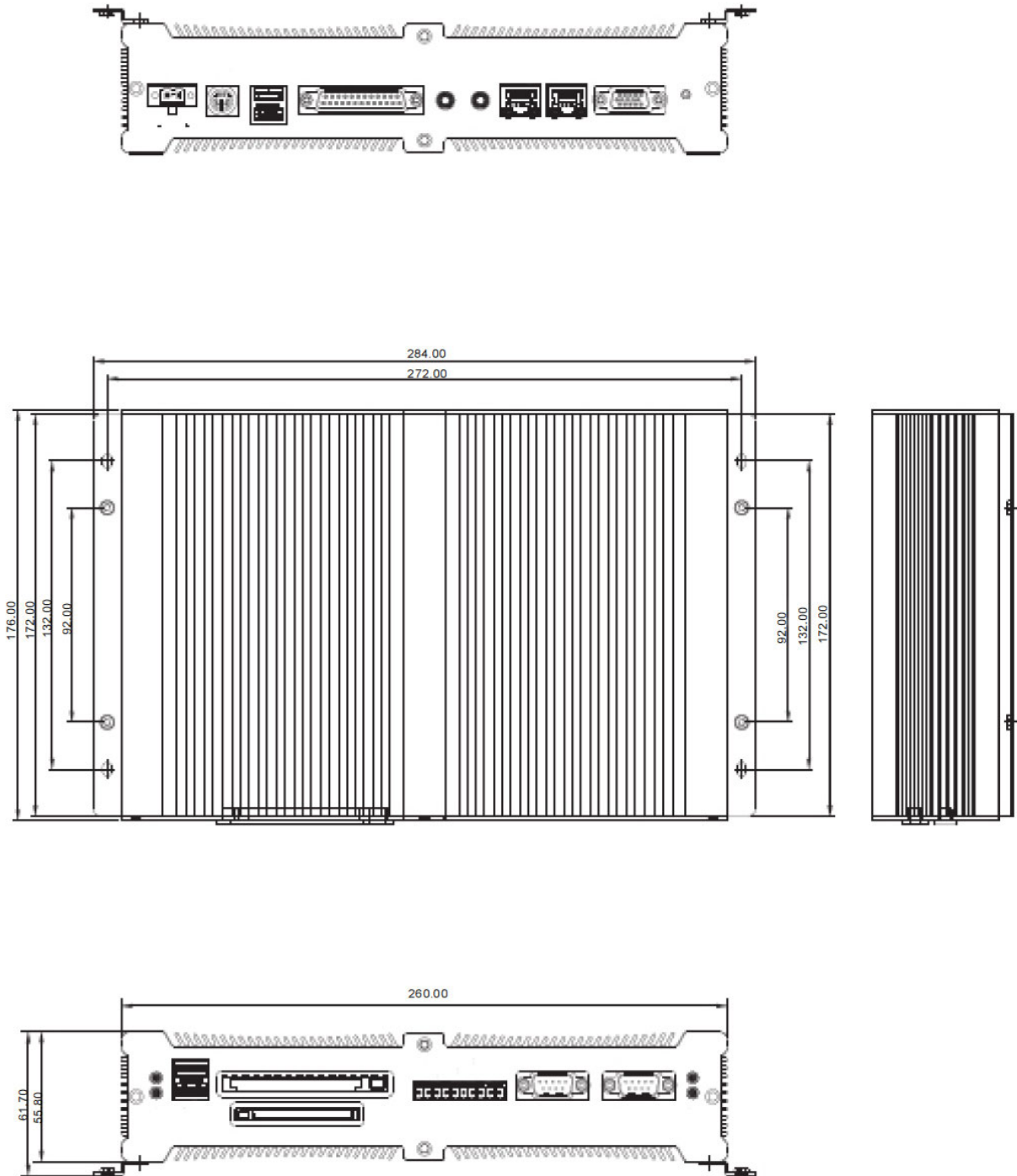
- CE approval
- FCC Class A

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Dimension Drawing



Ordering Information

PKBX5210 Fanless Box-PC 3270-M512
Intel Atom N270 1.6GHz, 512MB RAM, Dual LAN

PKBX5211 Fanless Box-PC 3270-M1.0G
Intel Atom N270 1.6GHz, 1GB RAM, Dual LAN