

Fanless Box-PC 103

PKBX5408



Designed with Intel® D425 1.8 GHZ processor and ICH8M embedded chipset and 12VDC input to take a low power consumption advantage, the Fanless Box-PC 103 is a compact fanless industrial computing housed in a size of 185 x 131 x 54 mm. The Fanless Box-PC 103 supports three RS232, one RS232/422/485, two 10/100/1.000 LAN port, four USB ports, one digital I/O, one VGA display, audio jack (speaker-out, Mic-in) and one external CF card socket. It is also a wireless-ready platform which has Mini-PCIe socket and SIM card holder on

board to support optional GSM wireless module or Wi-Fi module. The Fanless Box-PC 103 has a digital I/O port which offers 8x isolated digital input/output channels. With isolation protection of 2.500VDC, and dry contact support, the Fanless Box-PC 103 can be applied to industrial and building automation applications. With rich IO connection in palm-sized system, the Fanless Box-PC 103 is an ideal fanless system for gate control, public information, self-service system, POS, Kiosk, low-power budget devices, and transportation applications etc.



Main Features

- On-board Intel® Atom™ D425 processor, 1.8GHz
- Intel® ICH8M chipsets
- Dual Intel 10/100/1.000Mbps LAN ports
- 4x USB2.0
- 1x RS232/422/485 and 3x RS232
- 1x Mini-PCIe with two antenna holes and one SIM card holder

- 1x DB15 Digital Input and Output
- On-board DC to DC power designed to support +12VDC power input
- Supports ATX power mode, WOL, LAN teaming and PXE function

Technical Specifications

CPU Support

- On-board Intel® Atom™ D425 processor, 1.8GHz
- Intel® ICH8M chipsets

Main Memory

- 1x DDR3 SO-DIMM sockets, single channel, support up to 2GB DDR3 667/800 SDRAM, un-buffered, non-ECC

Device

- 1x 2.5" HDD driver bay
- 1x External CF Socket
- 1x SATA DOM

I/O Interface-Front

- ATX power on/off switch
- HDD access/power status LEDs
- 3x COM ports (COM2: RS232/422/485, COM3 and 4: RS232)
- 2x USB2.0 port
- Audio jack (Speaker-out, Mic-in)
- 2x Antenna holes

I/O Interface-Rear

- 1x VGA
- COM1: 1x RS232
- 2x Intel® GbE LAN port
- 2x USB2.0 port
- +12VDC power input
- 1x DB15 male digital input and output

Digital Input and Output

- 4x Digital Input (Source type)
Input Voltage (Dry Contact): Logic 0: Close to GND, Logic 1: Open
Input Voltage: Logic 0: 3V max, Logic 1: +5V to +30V
- 4x Digital Output (Sink type)
Output Voltage: 3.6V to 5V, Sink current: 200 mA max. per channel

Power Requirements

- DC to DC power designed for on-board support of +12VDC
- 1x optional 12V, 60W power adapter

Dimensions and Construction

- 185 x 131 x 54 mm (W x D x H)
- Aluminum Chassis with fanless design

Environment

- Operating temperature:
Ambient with air flow: -5°C to 55°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

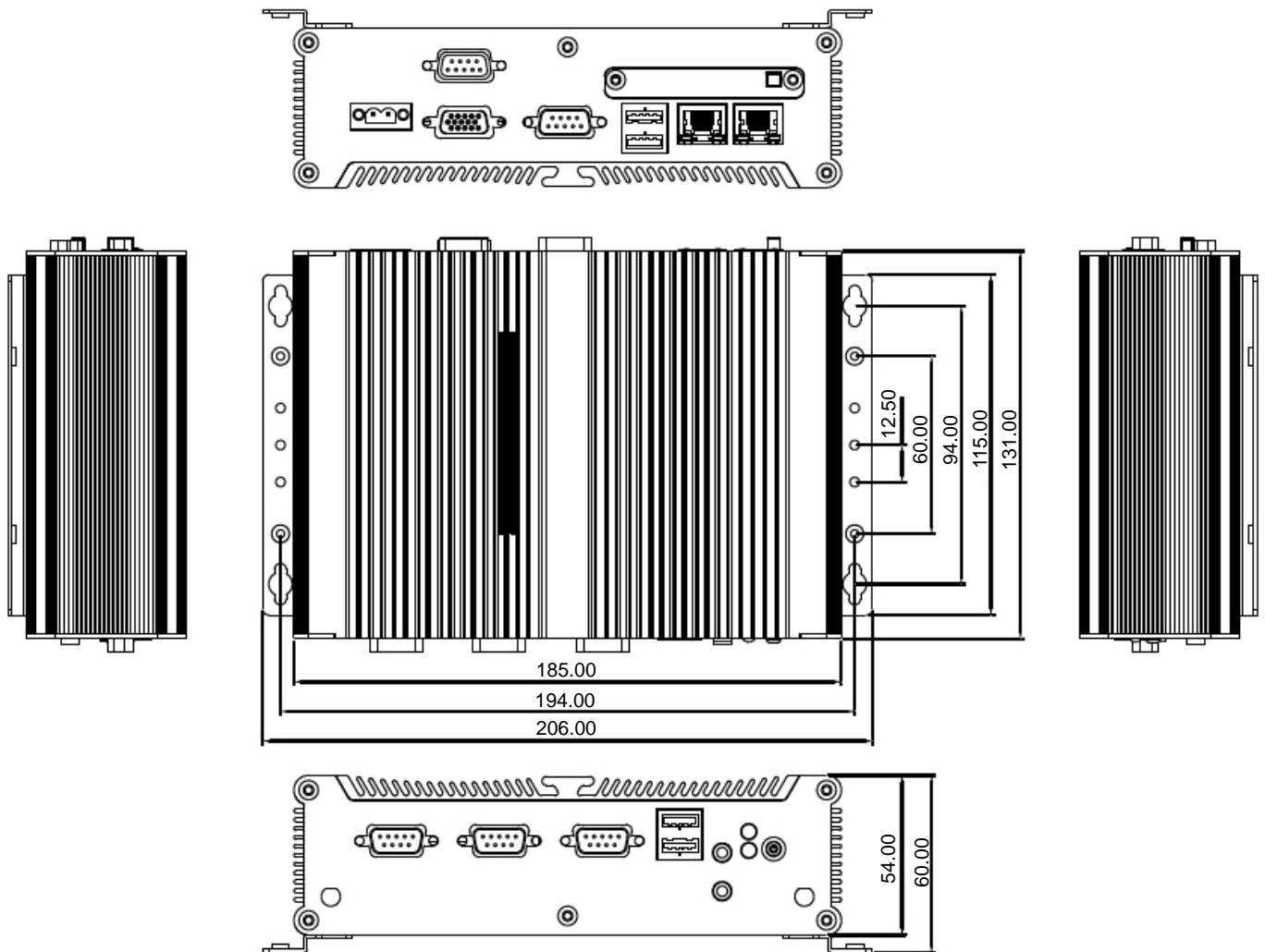
- CE approval
- FCC Class A

Fanless Box-PC 103

PKBX5408



Dimension Drawing



Ordering Information

PKBX5408 Fanless Box-PC 103
Intel Atom D425 1.8GHz, 1x VGA, 4x COM, 4x GPIO