

# Fanless Box-PC 2100A

## PKBX5403-1



The Fanless Box-PC 2100 series are based on the cutting edge technology of the Intel® Atom™ Dual Core D525 processor. With Atom™ Dual Core D525 CPU, DDR3 667/800 SO-DIMM and multiple I/O ports, the Fanless Box-PC 2100 series can be utilized within industrial automation, self-service machines like KIOSK check-in machines, recycling machines as well as factory automation etc. Other features of

this versatile series include three Intel® Gigabit LAN ports, four RS232 COM ports, two RS232/422/485 COM ports, four USB2.0, one VGA port, one GPIO port, and one speak out. In terms of storage, SATA HDD/SSD or front accessible CF card are available for deployment. The Fanless Box-PC 2100 series has a wide DC input range which varies from 9V to 36V and is therefore designed to meet most application requirements.



### Main Features

- ❑ On-board Intel® Atom™ Dual Core D525 (1.8GHz, 1M Cache) processor
- ❑ One DDR3 SO-DIMM socket, DDR3 800 2G memory module support max.
- ❑ Dual Intel® 1.000/100/10Mbps LAN ports
- ❑ 4x USB 2.0/1x VGA
- ❑ 1x DB15 GPIO connector
- ❑ 4x RS232 and 2x RS232/422/485 with auto flow control
- ❑ One external CF Socket and one external SIM card holder
- ❑ 9 to 36VDC input
- ❑ ATX power mode

### Technical Specifications

#### Main Board

- On-board Intel® Atom™ D525 Dual Core processor, 1.8GHz, 1M Cache
- Intel® ICH8M PCH

#### Main Memory

- 1x DDR3 SO-DIMM socket, support up to 2GB DDR3 800 SDRAM memory module, unbuffered and non-ECC

#### Storage

- 1x 2.5" SATA HDD drive bay
- One external CF socket

#### Expansion

- 1x Mini-PCIe socket onboard  
(Either optional Wi-Fi or Mobile wireless module)

#### I/O Interface-Front

- ATX Power on/off switch
- HDD Access/ Power status LEDs
- 2x USB2.0 ports
- 2x Serial port (RS232)
- 1x external SIM card holder
- 1x DB15 GPIO connector
- 2x Antenna holes  
(Either optional Wi-Fi or mobile wireless module)

#### I/O Interface-Rear

- 9 to 36VDC input
- 1x 3-pin for remote power on/off switch
- 1x DB15 VGA port
- 2x Intel® GbE LAN ports
- 1x Speaker out
- 2x USB2.0 ports
- 4x Serial port  
(2x RS232 and 2x RS232/422/485 with auto-flow control: isolation protection on COM1 and COM2)

#### Power Requirements

- ATX Power mode
- DC to DC power design on-board, support from 9V to 36VDC
- Optional 19V, 65W power adapter

#### Dimensions and Construction

- 195 x 200 x 65 mm (W x D x H)
- Aluminum Chassis with fanless design

#### Environment

- Operating temperature:  
Ambient with air flow: -20°C to 70°C (with industrial grade devices)  
(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

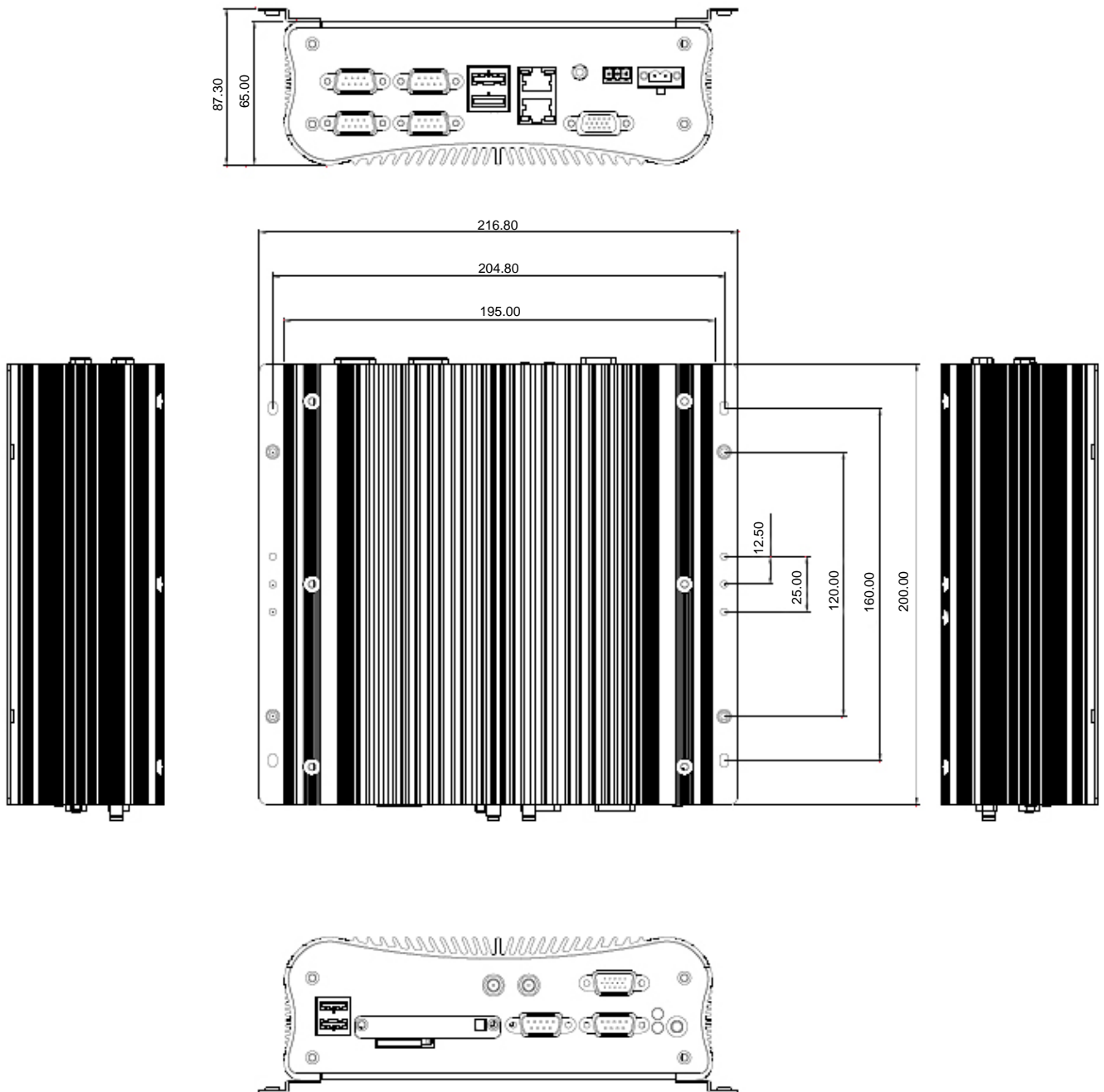
- CE approval
- FCC Class A

# Fanless Box-PC 2100A

## PKBX5403-1



### Dimension Drawing



### Ordering Information

PKBX5403-1 Fanless Box-PC 2100A  
w/Intel Atom D525 1.8GHz, 2x Ethernet