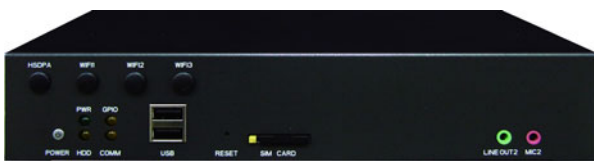




Automotive Box-PC 2100

PKBX5341

The Automotive Box-PC 2100 is an economic version of car pc with high performance for use in transportation application. The Automotive Box-PC 2100 system is designed in a very compact form factor, yet maintaining the industrial requirements for high availability, wide operation temperature range, and better vibration protection. The design also follows the in-vehicle industrial standard, like eMark. More features required for in-vehicle operations, such as power ignition delay control, low-power protection, SMBus connection and capture module, etc., are continued from others in-vehicle computer products. The GPS is an integrated function of the Automotive Box-PC 2100. With expansion capability, the 3.5G, bluetooth, etc., can be added to cover varieties of application requirements. Dual VGA display connections make the Automotive Box-PC 2100 an ideal choice for in-vehicle signage platforms as well.



Front Side



Rear Side

Main Features

- Build-in Intel® Atom D410 1.6GHz Processor
- Internal Wireless Communication (3.5G, GSM/GPRS,WLAN, BT)
- Smarter Ignition Power On/Off, Delay-time and Low Voltage Protection
- PCI/104 and Mini card for expansion

- 8 to 60V wide range DC power input
- Dual VGA Output (Clone Mode)
- Fanless Design
- Support 2x RS232/1x RS485

Technical Specification

Main Chipset

- ICH-8M

CPU

- Intel® Atom D410 Single Core 1.6GHz

Memory

- DDR2 667/800 SDRAM one 200-pin SO-DIMM up to 2GB

Expansion

- 1x Mini-PCIe socket (PCIe + USB) (for WLAN module)
- 1x Mini-PCIe socket (USB) (for 3.5G module)
- 1x Bluetooth module (optional)
- 1x GPS module
- 1x PCI/104

Expandable Storage

- 1x 2.5" SATA HDD bay

I/O Interface-Front

- 5x LED's for power stand-by (on power button), Power Status, HDD, WLAN/HSDPA and GPIO
- Power button
- 2x USB port
- 1x SIM card socket
- System reset button
- 1x Audio Mic-In, 1x Line-Out
- 4x mounting hole SMA-type for WLAN/HSDPA/BT

I/O Interface-Rear

- Mounting Hole reserved:
 - 1x RF coax to SMA bulkhead (For GPS) reference, signal connect to function board
- 8V to 60V wide range DC Power Input, Power Ignition signal control
- Dual VGA output (Clone mode)
- 5V/1A, 12V/1A DC power output, can be controlled by S/W
- 1x Mic-In, 1x Line-Out
- 2x RS232 (COM1/2), 1x RS485 (COM3)
- 2x USB 2.0
- 1x LVDS (DB26 female connector for LVDS with backlight, control power (+12V) and 1x USB 2.0)
- 10/100/1000 Fast Ethernet, 1x RJ45 with LED connector
- 1x GPIO (4 input and 4 output)

Power Management

- Selectable boot-up and shut-down voltage for low power protection
- HW design ready for 8-level delay time on/off at user's self configuration
- Power on/off ignition, software detectable
- Support S3/S4 suspend mode



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Environment

- Operating temperatures:
 - Ambient with air:
 - 10°C to 50°C (SSD)
 - 10°C to 50°C (HDD)
 - Storage temperatures: -40°C to 80°C
 - Relative humidity: 10% to 90% (non-condensing)
 - Vibration (Random)
 - 2g at 5 to 500Hz with SSD
 - 1g at 5 to 500Hz with HDD (In operation)
 - Vibration:
 - Operating: MIL-STD-810F, Method 514.5, Category 20, Ground Vehicle – Highway Truck
 - Storage: MIL-STD-810F, Method 514.5, Category 24, Integrity Test
 - Shock:
 - Operating: MIL-STD-810F, Method 516.5, Procedure I, Trucks and semi-trailers=20g
 - Crash Hazard: MIL-STD-810F, Method 516.5, Procedure V, Groundequipment = 75g

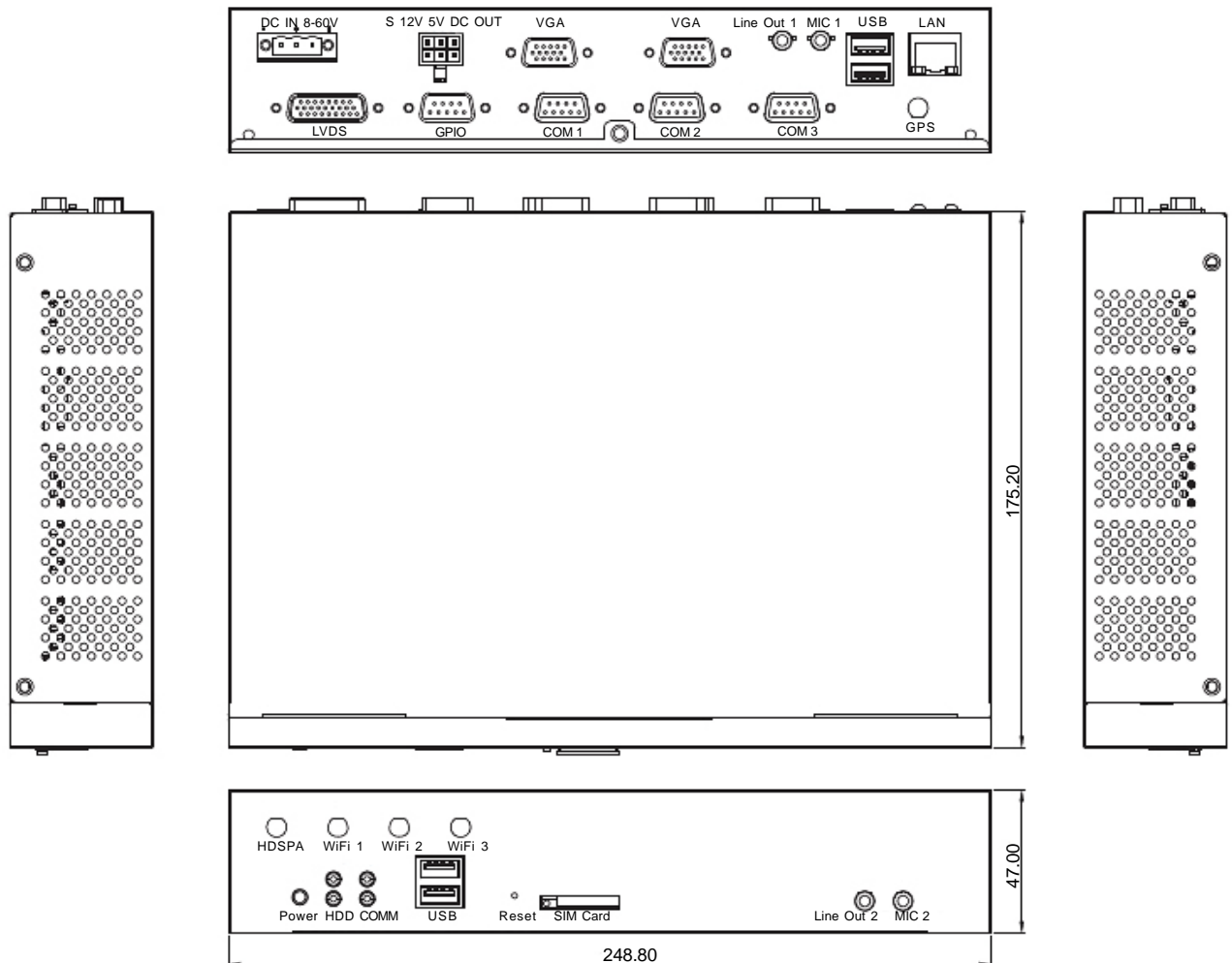
Dimensions and Construction

- 175.2 x 248.8 x 47 mm (D x W x H)
- Fanless design

Certifications

- CE approval, FCC class B, e13 Mark, EN50155

Dimension Drawing



Ordering Information

PKBX5341 Automotive Box-PC 2100
Intel Atom D410 1.6GHz, 1GB DDR2