



Automotive Box-PC 6100

PKBX5396

The Automotive Box-PC 6100 is an innovative in-vehicle computer for use in any car, truck, or even for maritime applications. The design itself makes the system available as a complete system allowed the user easily define and build requirements. Thanks to the extremely-low power consumption nature from Intel Atom processor, the Automotive Box-PC 6100 mechanical design is even more compact yet reach wider operating temperature range than ever. The Automotive Box-PC 6100 fulfills vehicle industry requirements. The design itself is in compliance with vehicle industrial standard such as eMark. More features required for in-vehicle operations, such as power ignition delay control, low power protection and SMBus connection, etc., are continued from others in-vehicle computer products. The GPS function navigates drivers to ultimate the fleet management. Optional 802.11b/g/n and 3.5G, and Bluetooth availability make the Automotive Box-PC 6100 ready for wider coverage and future trend. Multiple display connections make the Automotive Box-PC 6100 an ideal choice for in-vehicle signage platforms as well.



Front Side



Rear Side

Main Features

- Build-in Intel® Atom™ N270 processor
- Availability of GSM/GPRS/WCDMA/HSDPA/GPS
- e13 mark certification
- External smart battery back-up support
- Power ignition on/off delay control
- Circuitry design for low power protection
- 6 to 36VDC power input
- 1x PCI-104 expansion slot
- Multiple display interface connections (VGA, DVI-D and LVDS)
- Optional IP65 enclosure

Applications

- Vehicle tracking/monitoring
- Real-time and data communication
- Computer-aided dispatching
- Public transportation
- Infotainment systems
- Emergency medical services
- Fleet management
- Security



Technical Specification

Main Chipset

- 945GSE and ICH-7M

CPU

- Atom N270 1.6GHz

Memory

- DDR2 533/667 SO-DIMM up to 2GB

Expansion

- 1x PCI-104
- 1x Bluetooth module (optional)
- 2x Mini PCI express socket
- 1x PCIe interface
- 1x PCIe and USB interface

Target Users

- Bus/taxi /train operators
- Boat/yacht owners
- Trucking companies
- Police officers
- Service/delivery companies



Expandable Storage

- 1x 2.5" SATA II HDD and 1x CF

I/O Interface front

- 4x SMA antenna holes for WLAN, HSDPA, Bluetooth
- 1x Power button
- 1x Reset switch
- 1x SIM socket
- 1x USB
- 4x LED's for stand-by, HDD, WLAN/ HSDPA and GPO
- 1x Mic-in and 1x Line-out



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I/O Interface Rear

- 2x RS232
- 1x RS232/485 w/auto flow control
- 1x DB26 LVDS w/12V for backlight power and USB 2.0
- 1x DB15 VGA
- 1x DVI-D
- 2x USB 2.0
- 1x 10/100/1000 Ethernet
- 1x Mic-In and 1x Line-Out
- 1x SMA antenna hole for GPS
- 1x GPIO (4 input and 4 output)
- 6 to 36VDC thru 3-pin connector (Ignition, power and ground)
- 5/12VDC output, SM Bus
- 5VDC (1A), 12VDC (1A), w/o monitor
- 5VDC (0.5A), 12VDC (0.5A), w/ monitor

Power management

- Boot-up and shut-down voltage setting selectable for low power protection by software
- Setting 8-level on/off delay time by software
- Status of ignition and low voltage status can be detected by software

IP rating

- IP65 compliant

Dimensions

- 260 x 176 x 50 mm (W x D x H)

Construction

- Aluminium enclosure with fanless design

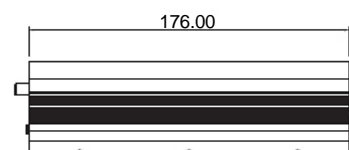
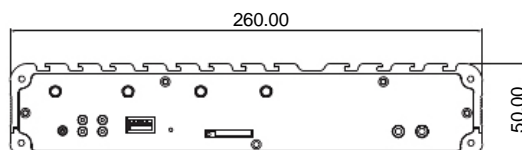
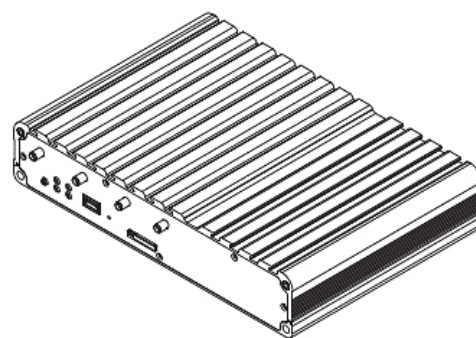
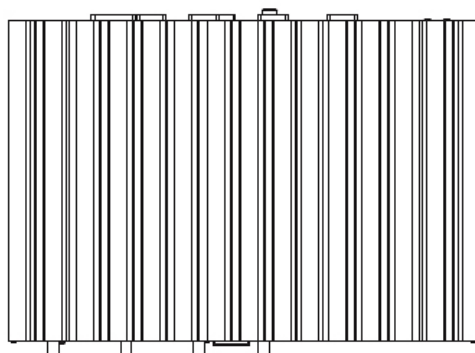
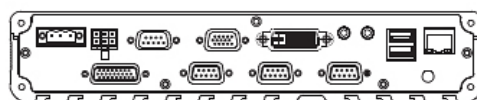
Environments

- Operating Temperature
 - 30°C to 60°C with CF or automotive HDD
- Storage Temperature
 - 40°C to 80°C at relative humidity 10% to 90% non-condensing
- Vibration (without vibration kit)
 - 2G at 5-500Hz random with CF
 - 1G at 5-500HZ random with automotive HDD
- MIL-STD-810F Method 514.5 C-17 category 20 Ground Vehicle Highway Truck
- Shock
 - Operating:
 - MIL-STD-810F Method 516.5, Procedure I, Trucks and semitrailers = 20g
 - Non-Operating:
 - MIL-STD-810F Method 516.5, Procedure V, Ground equipment = 75g

Certifications

- CE approval, FCC Class B, e13 mark, EN50155

Dimension Drawing





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Ordering Information

PKBX5396 Automotive Box-PC 6100 - 270
with Intel Atom N270 1.6GHz, with GPS, 945GSE + ICH-7M

Options



PKBD1100



PKBD2000



PKBZ3002-1



PKBZ3003



PKBZ3022

<p>PKBD1100 DeltaTerminal 8.4" LCD-TFT f. Automotive Box-PC3300+6xxx sunlight readable, with touchscreen, surface-mount</p>	<p>PKBZ3002-1 Back-up Battery kit for 4 Hours in system full load for Automotive Box-PC 6100</p>
<p>PKBD2000 DeltaTerminal 8.4" SVGA 800x600 Alu-chassis w/ TouchScreen for Automotive Box-PC 3300E/6000</p>	<p>PKBZ3003 Fan-and Antivibrationskit for Automotive Box-PC 3300E und 6xxx</p>
	<p>PKBZ3022 Protection Kit for Automotive Box-PC 6100 IP65 protection-Kit for anti-dust and anti-water</p>