



# Automotive Box-PC 6120

## PKBX5399

The Automotive Box-PC 6120 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. The Automotive Box-PC 6120 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 of in-vehicle computer products. The GPS function navigates drivers to ultimate the fleet management. Optional 802.11b/g/n, 3.5G, and Bluetooth availability make the Automotive Box-PC 6120 ready for wider coverage and future trend. Multiple display connections make the Automotive Box-PC 6120 an ideal choice for in-vehicle signage platforms as well.



Front Side



Rear Side

### Main Features

- Support Intel® Core™ 2 Duo SL9400 processors
- Availability of GSM/GPRS/WCDMA/HSDPA/GPS
- External smart battery back up support
- Power ignition on/off delay control
- Circuitry design for low power protection

- 6 to 36VDC power input
- 1 PCI-104 expansion slot
- Multiple display interface connections (VGA, DVI-D and LVDS)
- Optional IP65 enclosure



### Technical Specification

#### Main Chipset

- Intel® GS45 and ICH9M chipset

#### CPU

- Support Intel Core™ 2 Duo SL9400 processors

#### Memory

- DDR3 1.066/1.333MHz SO-DIMM up to 2GB

#### Expansion

- 1x PCI-104
- 1x Bluetooth module (optional)
- 2x Mini-PCI express Socket

#### 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 GPIO
- 1x Mic-in and 1x Line-out

#### I/O Interface-Rear

- 2x RS232
- 1x RS232/485 w/ auto flow control
- 1x DB26 LVDS (w/ +12V for backlight power & USB2.0)
- 1x DB15 VGA
- 1x DVI-D
- 2x USB2.0
- 1x 10/100/1000 Ethernet
- 1x Mic-in and 1 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)
- +5V/+12VDC output, SMBus 5VDC (1A), 12VDC (1A), without PKBD1100 5VDC (0.5A), 12VDC (0.5A), with PKBD1100



#### Expandable Storage

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



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### Power Management

- Boot-up & 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

### Environment

- Operating temperatures:
  - 30°C to 50°C (SSD)
  - 30°C to 45°C (Commercial HDD)
- Storage temperatures: -40°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)
- Vibration
  - (random): 2g @ 5-500 Hz with SSD; 1g @ 5-500 Hz with HDD (in operation)
  - (sine): 2g @ 5-500 Hz with SSD; 2g @ 5-500 Hz with HDD (non operation)
- Vibration (with SSD)
  - 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 (with SSD):
  - 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

### IP Rating

- IP65 compliant w/Automotive Box-PC 61xx series protection kit PKBZ3022 for anit dust and anti water

### Dimensions and Weight

- 260 x 176 x 50 mm (W x D x H)
- 2.42kg

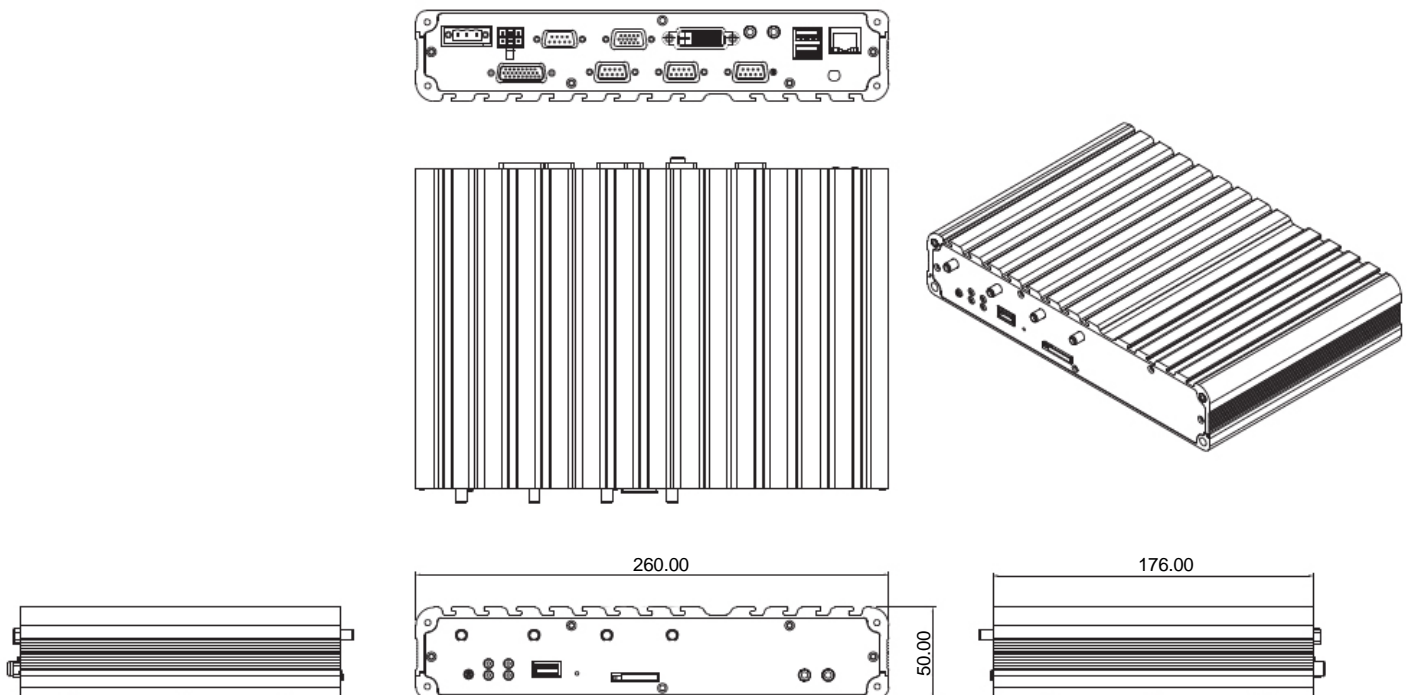
### Construction

- Aluminum enclosure with fanless design

### Certifications

- CE approval
- FCC Class B
- EN50155

### Dimension Drawing



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### Ordering Information

PKBX5399 Automotive Box-PC 6120  
Intel Core 2 Duo SL9400 1.86GHz, SO-DIMM up to 2GB

### Options



PKBD1100



PKBD2000



PKBZ3002-1



PKBZ3003



PKBZ3022

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