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# PANEL-PC QUICK INSTRUCTIONS GUIDE

**NO. G03-PPCQIG01-F**

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### User's Notice

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This manual contains all information required for the utilization of this product to meet the user's requirements. But it will change, correct at any time without notice. Manufacturer provides this manual "as is" without warranty of any kind, and will not be liable for any indirect, special, incidental or consequential damages (including damages for loss of profit, loss of business, loss of use of data, interruption of business and the like).

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### Package Contents

Manual	CD	AC-DC Adapter	Power Cord	Wi-Fi antenna
				
X2	X2	X1	X1	X2



## **CAUTION Safety Instruction**

- Operate the product according to the correct installation steps and with great care to make sure safety and comfort using experience. Please refer to the following safety instruction guide to avoid danger of electric shock or fire. Abide by the previous safety instruction guide to use and maintain the product and the hard disk to make sure of safe operating environment.
- Please follow the instruction manual for operation guide.
- The appropriate operating temperature ranges from 0 °C–50 °C.
- The operation humidity for this product is 5% to 80% RH.
- To avoid high temperature, please DO NOT overload the maximum power of the external power supply while the system is consuming high voltage. Be aware of the maximum temperature allowance of the power supply.
- See to it that the product is not working near the water.
- Always unplug power cable and other hardware cables from the system before cleaning.
- Apply only dry cloth for cleansing the product.
- Make sure that there is no heat source nearby when the product is working.
- Make sure that the thermal louver of the product is not blocked.
- Make sure to remove the power plug from the product when there is a thunder storm.
- Please remove the power plug from the product when you are not going to use the product for a long time.
- Make sure to set up or use the product on a stable surface.
- Make sure not to drop the product or strike it by any means.
- Make sure not to move the product when the power is on.
- Make sure not to step on the power cables and other cables or rest anything in them..
- Please contact qualified technician for maintenance or repair.
- Use only accessories and parts that are made by the qualified manufacturer.

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## Environmental Protection Announcement

Do not dispose this electronic device into the trash while discarding. To minimize pollution and ensure environment protection of mother earth, please recycle.



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## Chapter 1 Product Features

Thank you for purchasing the system, a new product developed, designed and manufactured under leading technical power and consistent dedication to fine workmanship.

*This panel PC system is a powerful system with competitively advantage in:*

- Onboard Intel<sup>®</sup> Bay Trail series SoC processor, with low power consumption never denies high performance
- Onboard 4GB DDR3L 1333Mhz SO-DIMM
- Support 1 \* 2.5" SATAII (3Gb/s) HDD Device & 1\* mSATA Device
- Support dual gigabit LAN
- Support VGA HD output
- Support 802.11 b/g/n WiFi communication
- Support multiple COM ports
- IP65 Industrial protection level standard
- Aluminum front panel structure; SECC steel foundation chassis
- Support 9V~24V wide voltage range DC power-in
- Compliance with EuP Standard

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***The system has the following features besides other basic functions:***

- ***WiFi:*** the Mini PCI-E onboard socket in the board is integrated with a WiFi card(802.11 b/g/n) that can act as a mini wireless modem when external antennas are connected. Different computers in the house can build wireless connections through the Mini TOP system and take necessary data from it, thus reducing the complexity in network establishment.
- ***Giga LAN:*** The system is integrated with Gigabit LAN network controller with ACPI management realizing efficient power management for the operating system.
- ***USB2.0:*** The system supports USB 2.0 function compatible for both USB 2.0 devices and USB 1.1 interface devices. Users can enjoy high speed data transmission rate up to 480Mb/s. Users can also connect USB 2.0 storage device to the system to create a data bank for storage of download movies.
- ***USB3.0:*** Experience Fastest data transfers at 5Gb/s with USB3.0 the new latest connectivity standard. Built connect easily with nextgeneration components and peripherals, USB3.0 transfers data 10x faster and backward compatible with previous USB2.0 components.
- ***CPU Usage:*** The CPU Usage diagram shows a beautiful data curve that indicates a pretty low CPU usage percentage for video playback of different formats. GPU performances are excellent as well.
- ***dB Value:*** The design of the system takes into consideration the needed quiet operating environment in the living room and the average dB value is below 26 under normal operation to ensure the tranquility when you are absorbed in film watching.

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## Chapter 2      Specification

<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Intel® Bay Trail series SoC processor</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>■ Onboard 4GB DDR3L 1333MHz SO-DIMM</li> </ul>
<b>Dual LAN</b>	<ul style="list-style-type: none"> <li>■ Integrated with dual Intel i211AT PCI-E Gigabit LAN chips</li> <li>■ Support Fast Ethernet LAN function of providing 10/100/1000Mbps Ethernet data transfer rate</li> </ul>
<b>HD Audio</b>	<ul style="list-style-type: none"> <li>■ Realtek ALC887 HD Audio Codec integrated</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>■ Support 1* 2.5" SATAII 3Gb/s device</li> <li>■ Support 1 * M-SATA device</li> </ul>
<b>Bottom I/O</b>	<ul style="list-style-type: none"> <li>■ 1 * Power Button</li> <li>■ 1* RS232 COM Port &amp; 2* RS232/422/485 COM (<i>Optional for HPC-104BR series</i>)</li> <li>■ 4* RS232 COM Port &amp; 2* RS232/422/485 COM (<i>Optional for HPC-150BR series</i>)</li> <li>■ 1 * VGA port</li> <li>■ 1* USB 3.0 port</li> <li>■ 3* USB 2.0 port</li> <li>■ 2* RJ-45 port(Gigabit LAN)</li> <li>■ 1* Line-Out port</li> <li>■ 1* DC-in power jack</li> </ul>
<b>Left &amp; Right I/O</b>	<ul style="list-style-type: none"> <li>■ 2 * Speaker (<i>Optional for HPC-150BR series</i>)</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>■ 9V~24V DC-in power supply</li> </ul>
<b>Standard Accessories</b>	<ul style="list-style-type: none"> <li>■ 1 * 60W AC-DC (12V/5A) Adapter</li> <li>■ 1 * Power cord</li> <li>■ 2* WIFI antenna</li> <li>■ 2* CD</li> <li>■ 2* Manual</li> </ul>

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## Chapter 3 Product Diagram

**Notice:** The following diagrams and photos in the manual serves as instruction purpose only and may differ from actual product. Please refer to the product you purchase for actual specification.

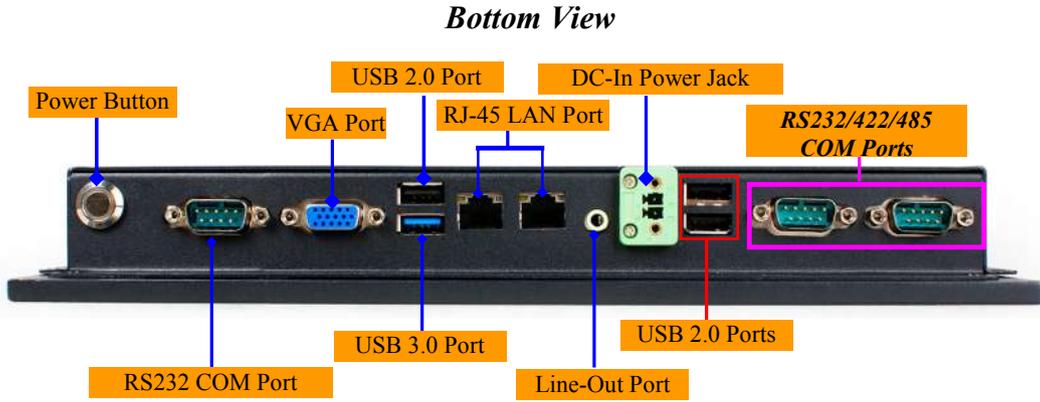
### *Product Diagram for HPC-104BR Series:*

#### *Front View Appearance*

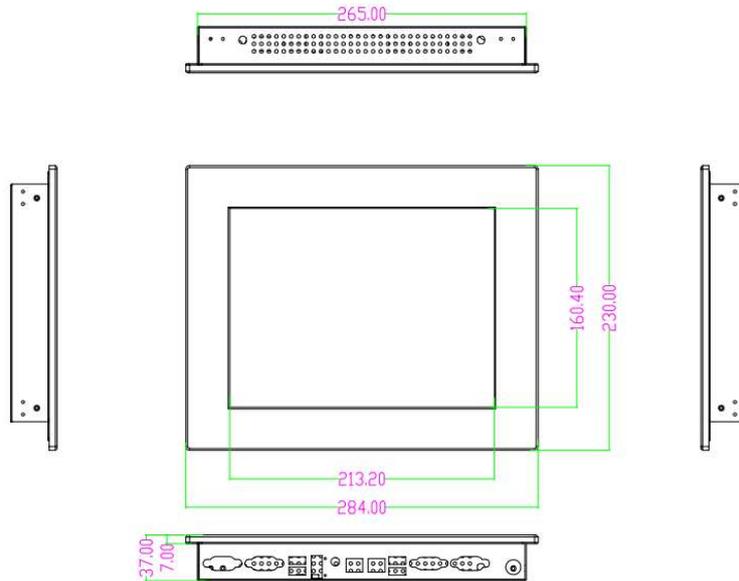


*Top View*





**Product Dimension for HPC-104BR Series:**



**\* Measure Unit: mm.**

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*Product Diagram for HPC-150BR Series:*

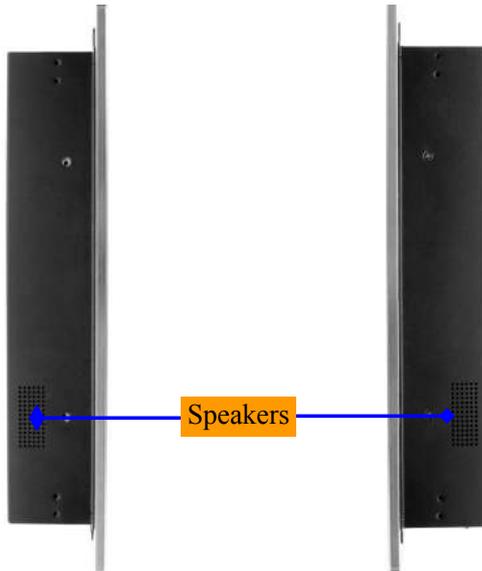
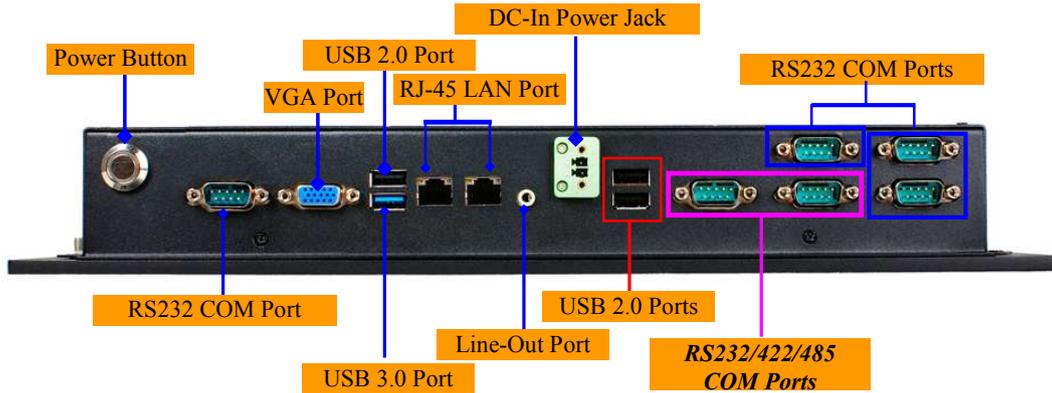
*Front View*



*Top View*



*Bottom View*



*Left View*

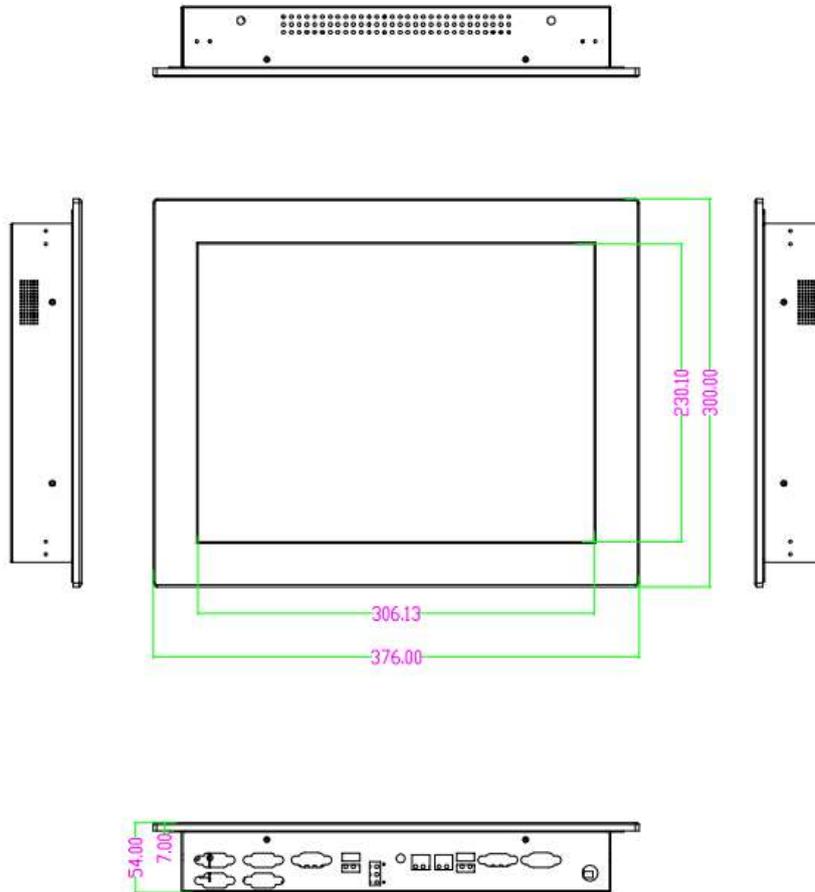
*Right View*

**Notice:** The left side and the right side of HPC-104BR Series come without speakers.

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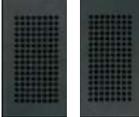
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*Product Dimension for HPC-150BR Series:*



*\* Measure Unit: mm.*

***Part & Name & Function Description:***

	<b>Power Button</b>	Press to turn on/off the system.
	<b>COM Port</b>	Mainly for user to connect external MODEM or other devices that supports Serial Communications Interface.
	<b>VGA Port</b>	To connect display device that support VGA specification.
	<b>USB 2.0 Port</b>	To connect USB keyboard, mouse or other devices compatible with USB 2.0 specification.
	<b>USB 3.0 Port</b>	To connect USB keyboard, mouse or other devices compatible with USB specification. USB 3.0 ports supports up to 5Gbps data transfer rate.
	<b>RJ-45 LAN Port</b>	This connector is standard RJ-45 LAN jack for Network connection.
	<b>Line-Out Connector</b>	For user to connect external speaker, earphones, etc to transfer system audio output.
	<b>9V~24V DC-In Power Connector</b>	For user to connect compatible power adapter to this power jack after connecting connector power cord to adapter.
	<b>Wi-Fi antenna</b>	For better WI-FI reception.
	<b>Speaker (Optional for HPC-150BR Series ONLY)</b>	Integrated speaker for audio output.

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## Chapter 4 Main Differences of the Models

Model Name	Panel Size	Resolution	Brightness	Contrast Ratio	Touch Panel	Product Size
<b>HPC-104BR-2930-4G</b>	10.4"	800 x 600	230 cd/m <sup>2</sup>	500:1	Resistive screen	284 (L) * 230 (W) *37 (H)mm
<b>HPC-104BRH-2930-4G</b>	10.4"	800 x 600	400 cd/m <sup>2</sup>	700:1	Resistive screen	284 (L) * 230 (W) *37 (H)mm
<b>HPC-150BR-2930-4G</b>	15"	1024 x768	350 cd/m <sup>2</sup>	700:1	Resistive screen	376 (L) * 300 (W) *54 (H)mm
<b>HPC-150BRH-2930-4G</b>	15"	1024 x768	450 cd/m <sup>2</sup>	800:1	Resistive screen	376 (L) * 300 (W) *54 (H)mm

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# Appendix

## General Notices

European Union CE Marking and Compliance Notices

Products intended for sale within the European Union are marked with the Conformity European (CE) Making, which indicates compliance with the applicable Directive and European standards and amendments identified.

### Shielded Cables Notice

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

### Peripheral Devices Notice

Only peripherals (input/out devices, terminals, printers, etc) certified to comply with Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

## Wireless Related Information

Wireless Interoperability

Wireless LAN PCI Express Mini Card is designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS), Complementary Code Keying (CKK), and/or Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

The IEEE802.11a/b/g/n Standard on Wireless LANs was defined and approved by the Institute of Electrical and Electronics Engineers.

The Wireless Fidelity (WiFi) certification as defined by the Wi-Fi Alliance.

### Usage Environment and Your Health

Wireless LAN PCI Express Mini Card emits radio frequency electromagnetic energy like other radio devices. However, the level of energy emitted is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Due to the fact that Wireless LAN PCI Express Mini Card operates within the guidelines found in radio frequency safety standards and recommendations, we believe the integrated wireless cards are safe

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for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situation or environment, the use of Wireless LAN PCI Express

Mini Card may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

Using the integrated wireless cards on board of airplanes, or in hospitals

In any other environment that the risk of interference to other devices and service are perceived or identified to be harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization (e.g., airport or hospital), you are encouraged to ask for authorization to use Wireless LAN PCI Express Mini Card prior to turning on the computer.

## **Electronic Emissions Notices**

### **European Union Compliance Statement Class B Compliance**

European Union – Compliance to the Electromagnetic Compatibility Directive

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. We cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the installation of option cards from other manufacturers.

This product has been tested and found to comply with the limits Class B Information Technology Equipment according to European Standard EN55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Properly shielded and grounded cables and connectors must be used in order to reduce the potential for causing interference to radio and TV communications and to other electrical or electronic

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equipment.

## **FCC Rules and Regulations-Part 15**

This device uses, generates and radiates radio frequency energy. The radio frequency energy produced by this device is well below the maximum exposure allowed by the Federal Communications Commission (FCC)

- This device complies with the limits for the Class B digital device pursuant to Part 15 subject to the following two conditions:
- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

The FCC limits are designed to provide reasonable protection against harmful interference when the equipment is installed and used in accordance with the instruction manual and operated in a commercial environment. However, there is no guarantee that interference will not occur in a particular commercial installation, or if operated in a residential area.

If harmful interference with radio or television reception occurs when the device is turned on, the user must correct the situation at the user's own expense. The user is encouraged to try one or more of the following corrective measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that on which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** The Part 15 radio device operates on a non-interference basis with other devices operating at this frequency. Any changes or modification to said product not expressly approved by Intel could void the user's authority to operate this device.