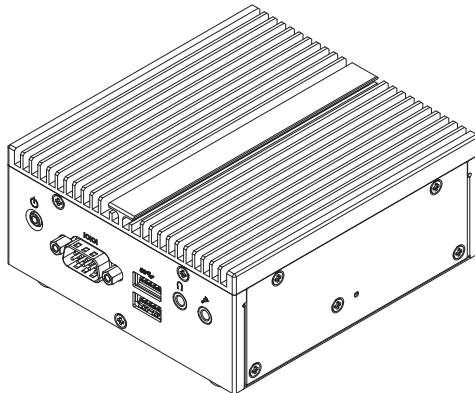


QBiX-GLKA5005H-A1

QBiX Industrial Embedded System
Quick Start Guide



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Packing List

Before setting up your product, please make sure the following items have been shipped:

Item	Quantity
System kit	1
19V / 65W adapter	1
Power cord (May vary based on local distribution)	1
VESA Bracket	1
VESA screw, M4-10L x 4pcs, M3-3L x 2pcs	1
HDD screw, M3 x 8L	4
FFC SATA Cable	1
Dehydrate (10G)	1
Thermal pad for HDD	2

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

About this Document

This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the GIGAIPC.com for the latest version of this document.

Safety Precautions

Please read the following safety instructions carefully. It is advised that you keep this manual for future references

1. All cautions and warnings on the device should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
4. Always completely disconnect the power before working on the system's hardware.
5. No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
6. If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
7. Always disconnect this device from any AC supply before cleaning.
8. While cleaning, use a damp cloth instead of liquid or spray detergents.
9. Make sure the device is installed near a power outlet and is easily accessible.
10. Keep this device away from humidity.
11. Place the device on a solid surface during installation to prevent falls
12. Do not cover the openings on the device to ensure optimal heat dissipation.

13. Watch out for high temperatures when the system is running.
14. Do not touch the heat sink or heat spreader when the system is running
15. Never pour any liquid into the openings. This could cause fire or electric shock.
16. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.
17. If any of the following situations arises, please the contact our service personnel:
 - i. Damaged power cord or plug
 - ii. Liquid intrusion to the device
 - iii. Exposure to moisture
 - iv. Device is not working as expected or in a manner as described in this manual
 - v. The device is dropped or damaged
 - vi. Any obvious signs of damage displayed on the device
18. **DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE CHAPTER 1) TO PREVENT DAMAGE.**

FCC Statement

Warning!



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Caution:

There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

Attention:

Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte. Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur. Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.

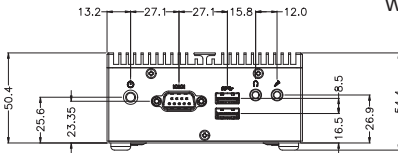
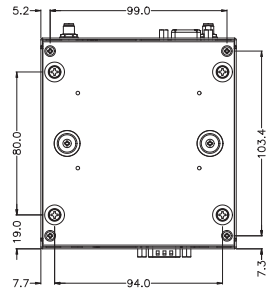
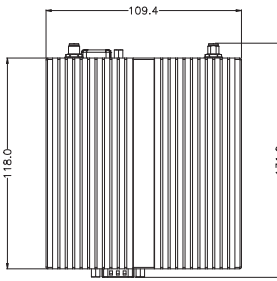
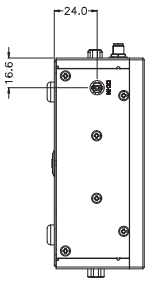
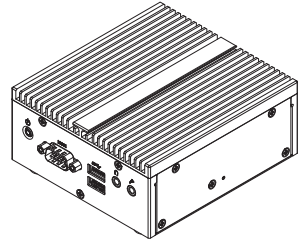
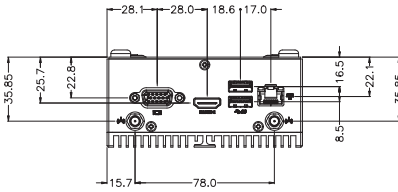
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Chapter 1

Chapter 1 - Product Specifications



QBix-GLK-5005H-A1 System with Rubbed Stand
Weight : 764g (bare-bone)

1.1 Specifications

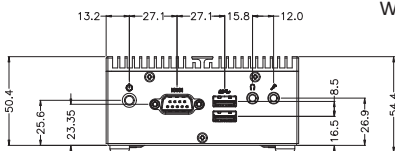
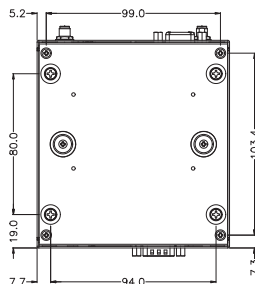
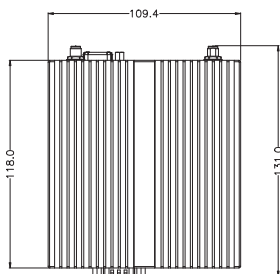
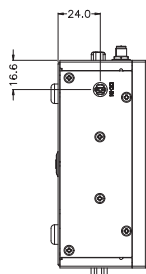
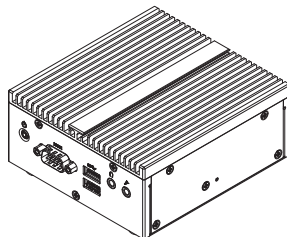
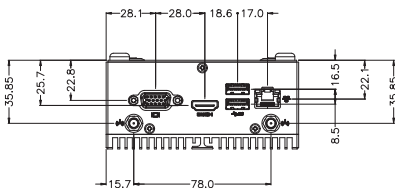
System	QBiX-GLKA5005H-A1 (GB-CGAA-SI)
Dimension	System Size : 118W x 109.4D x 54.4H (mm)
CPU	Intel® Pentium® Silver J5005 Processor 4 cores, 4 threads, up to 2.80 GHz, TDP 10W 4MB Cache
Chipset	SOC
Memory	1 x DDR4 SO-DIMM socket, Max. Capacity 8 GB Single channel memory architecture Support for DDR4 2400 MHz memory modules
Ethernet	1 x GbE LAN port (Realtek® RTL8111HS)
Graphic support	Integrated Graphics Processor - Intel® UHD Graphics 605 1 x HDMI1.4b port, supporting a maximum resolution of 4096 x 2160@30 Hz 1 x D-SUB port: max. resolution 2560 x 1600 at 60Hz (with compatible displays)
Audio	Realtek ALC891 High Definition Audio
Storage	1 x SATA 6 Gb/s port (Support 2.5" Hard drive/SSD)
Expansion Slots	1 x M.2 slot(Support NGFF-2230 Wifi/BT)
Front I/O	2 x USB3.0 1 x COM Port (RS-232) 1 x Headphone Jack 1 x Microphone Jack 1 x Power button
Rear I/O	1 x RJ45 LAN port 2 x USB 3.0 1 x HDMI 1 x VGA port 2 x WiFi/BT Antenna (option)
Side I/O	1 x DC-Jack
Power	DC 12~19V Full Range (Adapter 19V/65W)
Operation temperature	Operating temperature: 0°C to 50°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -20°C to 70°C Non-operating humidity: 0%-95% (non-condensing) Use wide temperature range memory and storage

System	QBiX-GLKA5005H-A1 (GB-CGAA-SI)
Vibration During Operation	Operation: IEC 60068-2-64, 5 Grms, random, 5 ~ 500 Hz, 1 hr / Per Axis, With SSD Non-operation: IEC 60068-2-6, 2 G, Sine, 10 ~ 500 Hz, 1 Oct/min, 1 hr / Per Axis
Shock During Operation	Operation: IEC 60068-2-27, 50 G, half sine, 11 ms duration, With SSD

Chapter 2

Chapter 2 – QBiX Industrial Embedded System Kit

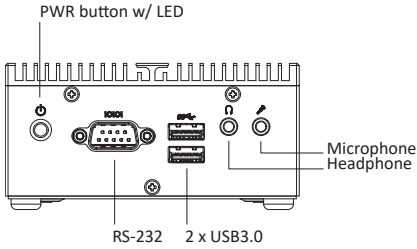
2.1 Dimension



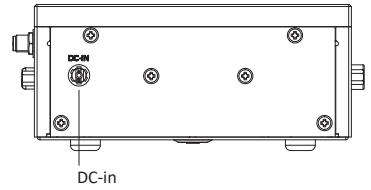
QBiX-GLK-5005H-A1 System with Rubbed Stand
Weight : 764g (bare-bone)

2.2 Getting Familiar with Your Unit

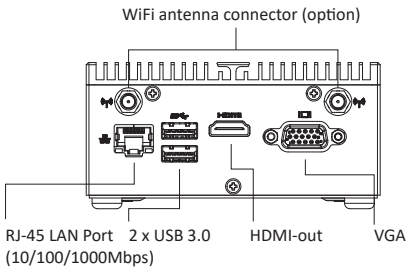
[Front Side]



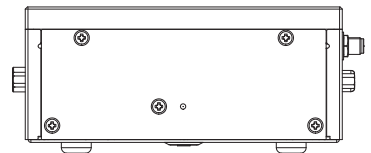
[Left Side]



[Rear Side]

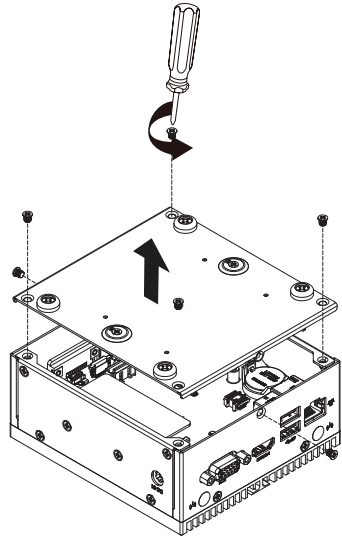


[Right Side]



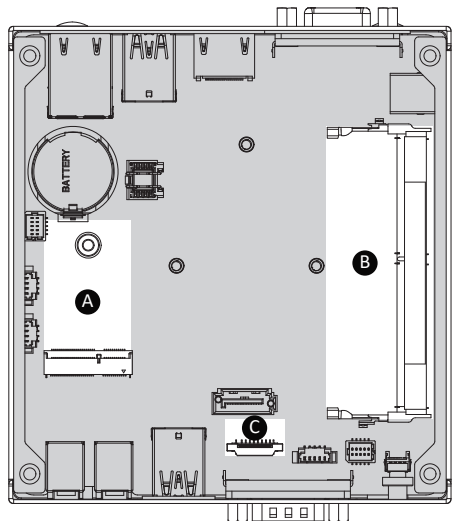
[Install]

- * Before opening the case, make sure to unplug the power cord.
- * 打開機殼前，請確實移除電源。
- * Before Connecting the power, make sure to fasten the case securely.
- * 接上電源前，請確實將機殼完整鎖附。



[Bottom PCB Side]

Information	
A	M.2 2230 WiFi module connector
B	DDR4 2400 MHz SO-DIMM Slot
C	FFC SATA connector

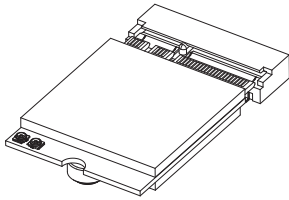


2.3 A) Wireless Module : How to safely install the Module (Wireless Module inclusion may vary based on local distribution)

1

Carefully insert the wireless module into the M.2 slot

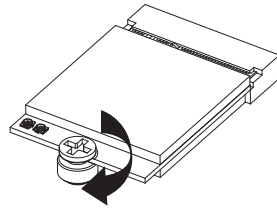
小心地將無線模組安裝於M.2插槽中。



2

Lock the screw in the middle.

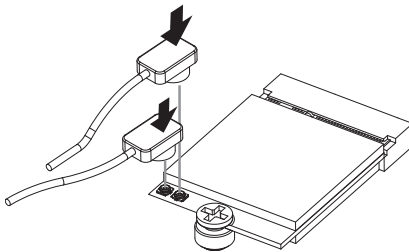
鎖入固定於無線模組中央頂端的螺絲。



3

Install the antenna on the left side of the connection wireless module down.

向下安裝連結於無線模組左側頂端天線。

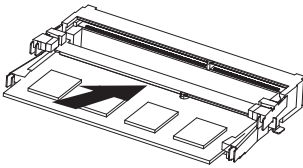


2.4 B) Memory Installation: DDR4 SO-DIMM

①

Carefully insert SO-DIMM memory modules.

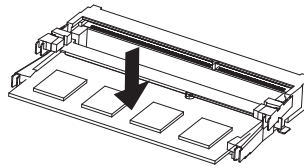
小心地由下至上將 SO-DIMM 記憶體安裝於記憶體插槽。



②

Push down until the modules click into place.

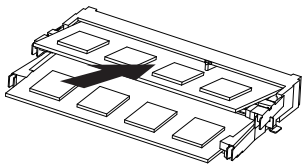
當記憶體固定於插槽後，再輕輕下壓至定點。



③

Carefully insert SO-DIMM memory modules.

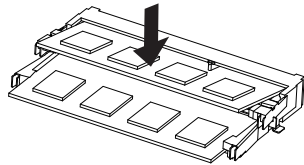
安裝下層記憶體後，重覆前述動作安裝上層記憶體。



④

Push down until the modules click into place.

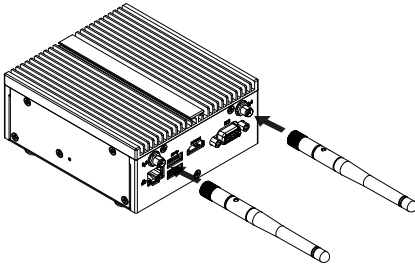
當記憶體固定於插槽後，再輕輕下壓至定點。



2.5 Antenna Installation (Antenna inclusion may vary based on local distribution)

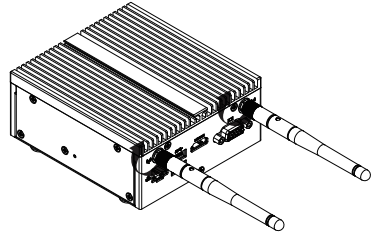
①

Carefully insert the antennas into the connectors.
小心地將天線插入天線插孔中。



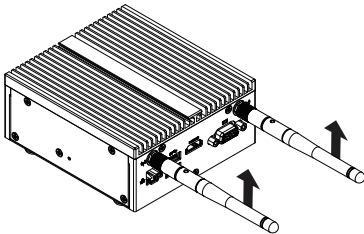
②

Turn the antennas clockwise until they are completely secure on the connectors.
握住天線接頭底端，按順時針方向將天線旋入插孔中牢牢固定。



③

Flip up the antenna heads so that they are perpendicular to the machine.
栓緊後請將天線拉起朝上呈垂直狀。

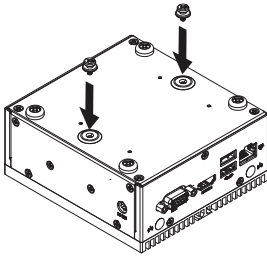


2.6 VESA Bracket

1

Attach the screws provided on the underside of the BRiX IoT.

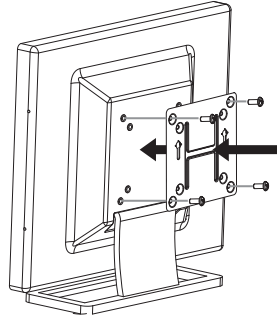
安裝隨附的VESA支撐架螺絲於BRiX底部。



2

Attach the VESA mounting plate to the rear of a compatible display using the screws provided.

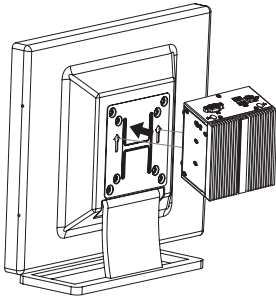
安裝隨附的 VESA 支撐架於支援 VESA 支撐架的電腦螢幕或電視機後背。



3

The QBiX can now be mounted by sliding the device into place.

將已安裝VESA支撐架螺絲的QBiX插入VESA支撐架的滑軌孔，向下壓至定位點後即可固定。



2.7 Support

- For a list of tested memory, M.2, 2.5" SSD, wireless adapters and OS supported, go to: <http://www.gigaipc.com>
- To download the latest drivers and BIOS updates, go to: <http://www.gigaipc.com>
- For product support, go to: <http://www.gigaipc.com>

2.8 Safety and Regulatory Information

Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible.

Disposal of used Batteries must be in accordance with local environmental regulations.

Failure to use the included Power Adapter may violate regulatory compliance and may expose the user to safety hazards.

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.