



IBOX-605

Fanless Industrial PC

Technical Support Documentation

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Product:	IBOX-605
Platform:	6/7/8/9th Gen Intel® Core™ Processor
Classification:	Industrial PC

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All product specifications are subject to change without notice.

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1. Product Overview

The IBOX-605 is a fanless industrial pc engineered for mission-critical industrial applications. Its fanless aluminum chassis provides silent, maintenance-free operation in harsh environments with extended temperature ranges.

1.1 Key Features

- Fanless Aluminum Design
- 6/7/8/9th Gen Intel® Core™ Processor
- Intel® H310 Chipset
- 2 x DDR4, Max. 32G
- 1 x M.2, 2 x 2.5-inch HDD (optional)
- 6 x COM Ports (1 x COM RS232/422/485 optional)
- DC 12 19V (DC 9 36V wide voltage optional)

1.2 Target Applications

The IBOX-605 is suitable for Industrial Automation, Medical, Data Acquisition, Motion Control, Vehicle Application and etc..

1.3 Package Contents

Verify the following items are included in the package:

Item	Qty	Description
Power Adapter	1	12V 10A / 12V 12.5A optional
Power Cord	1	CN, US, UK, EU etc.
Wall Bracket	2	Standard
CD Driver	1	Neutral

NOTE: If any item is missing or damaged, contact IWILL Technology support immediately at support@iwilltech.co.uk.

2. Hardware Specifications

Complete technical specifications for the IBOX-605.

SYSTEM	
Model	IBOX-605
Processor	6/7/8/9th Gen Intel® Core™ Processor
Memory	2 x DDR4 2133/2400MHz SODIMM, Max. 32 GB
BIOS	AMI EFI BIOS
Graphics	Intel® HD Graphics 630
Display Ports	Support synchronous/asynchronous 2 display 2 x HDMI 1 x M.2 2280
Storage	1 x 2.5-inch HDD (2 x 2.5-inch HDD optional) 1 x M.2 2280 (Compatible: PCIe and SATA signal)
Expansion	1 x Mini PCIe (support WiFi/Bluetooth) ■ ()
Ethernet	2 x RTL8111H 1000Mbps LAN Ports
OS Support	Windows 10, Linux
I/O PORTS	
Ports	6 x USB 2.0 2 x COM Ports 2 x USB 3.0 2 x 1000Mbps LAN Ports 1 x VGA 2 x HDMI 1 x Mic 1 x Line Out 4 x COM Ports (COM2 support RS232/422/485) 1 x DC-In
POWER & OTHER	
Power Input	DC 12 ~ 19V (DC 9 ~ 36V wide voltage optional)
ENVIRONMENT	
Operating Temp.	0■ ~ 50■ (Commercial HDD), -20■ ~ 60■ (Industrial SSD), surface air flow
Humidity	5% ~ 95% (non-condensing)
Certifications	CE, CCC, FCC Class A, RoHS
MECHANICAL	
Dimensions	230 x 219 x 84 mm
Weight	4.0 kg

3. I/O Interfaces & Connectivity

3.1 Front I/O

Connector	Description
6	6 × USB 2.0
2	2 × COM Ports
2	2 × USB 3.0
2	2 × 1000Mbps LAN Ports
1	1 × VGA
2	2 × HDMI

3.2 Rear I/O

Connector	Description
1	1 × Mic
1	1 × Line Out
4	4 × COM Ports (COM2 support RS232/422/485)
1	1 × DC-In

Ethernet / LAN

- 2 × RTL8111H 1000Mbps LAN Ports

WARNING: Always power off the unit and disconnect all power sources before connecting or disconnecting any internal components.

4. Mechanical Dimensions

All dimensions are in millimeters (mm).

Parameter	Value
Overall Dimensions	230 x 219 x 84 mm
Weight	4.0 kg

NOTE: For detailed technical drawings with mounting hole positions, contact IWILL Technology at support@iwilltech.co.uk.

5. BIOS Configuration

The IBOX-605 uses AMI EFI BIOS. Access the BIOS setup by pressing **DEL** or **F2** during the POST screen at boot.

5.1 Entering BIOS Setup

1. Connect a USB keyboard to the unit.
2. Power on the system.
3. Press **DEL** or **F2** repeatedly as the splash screen appears.
4. The AMI EFI BIOS setup utility will load.

5.2 Important BIOS Settings

Setting	Location	Description
Boot Order	Boot Tab	Set primary boot device (SSD, USB, PXE)
Power On After Power Loss	Advanced > ACPI	Set to [Power On] for automatic startup on power restoration
Wake-on-LAN	Advanced > Network	Enable for remote wake capability over LAN

NOTE: BIOS menu paths may vary between firmware revisions. If a setting is not found, check adjacent menus or consult IWILL Technology support.

5.3 BIOS Reset

Method 1 (Keyboard): Enter BIOS setup and press **F9** to load optimized defaults, then **F10** to save and exit.

Method 2 (CMOS Reset): Power off, disconnect power, open the chassis, locate the CMOS clear jumper on the motherboard, short for 5 seconds, then remove.

6. Operating System Installation

6.1 Supported Operating Systems

OS	Notes
Windows 10	64-bit (21H2+). Recommended for most deployments.
Linux	Ubuntu 22.04+, CentOS, or compatible distributions.

6.2 Installation via USB

1. Prepare a bootable USB drive with the desired OS image (use Rufus, balenaEtcher, or dd).
2. Insert the USB drive into an available USB port.
3. Enter BIOS (DEL/F2) and set USB as the first boot device.
4. Save and restart. The OS installer should load from USB.
5. Follow on-screen instructions. Select the internal drive as the install target.
6. After installation, re-enter BIOS and restore the internal drive as primary boot device.

6.3 Driver Installation

Windows 10/11 should automatically detect most hardware via Windows Update. For chipset, graphics, and LAN drivers, download the latest versions from Intel's support site or contact IWILL Technology for the driver package.

7. Expansion Module Installation

7.1 Available Expansion Slots

- 1 x Mini PCIe (support WiFi/Bluetooth)

7.2 Installation Procedure

1. Power off and disconnect all power sources.
2. Remove the chassis access panel screws.
3. Locate the target expansion slot on the motherboard.
4. Insert the module at a 30° angle and press down until it clicks into the retaining clip.
5. If applicable, connect antenna pigtail cables to the module's U.FL connectors.
6. Replace the access panel and secure with screws.

WARNING: Always use ESD protection (grounding strap) when handling internal expansion modules. Static discharge can permanently damage components.

7.3 Storage Installation

- 1 x 2.5-inch HDD (2 x 2.5-inch HDD optional)
- 1 x M.2 2280 (Compatible: PCIe and SATA signal)

8. Mounting Guide

8.1 VESA / Desktop Mounting

The IBOX-605 supports VESA mounting (check rear panel for mounting hole pattern). Use M3 or M4 screws as appropriate — do not exceed the maximum thread depth.

WARNING: Ensure adequate ventilation around the unit. Do not block the heatsink fins or ventilation openings.

9. Maintenance & Troubleshooting

9.1 Routine Maintenance

- **Heatsink Cleaning:** Periodically blow out dust from the heatsink fins using compressed air.
- **Connector Inspection:** Check connectors for damage or corrosion, especially in harsh environments.
- **Firmware Updates:** Check with IWILL Technology for BIOS updates that may improve stability.

9.2 Troubleshooting Guide

Symptom	Possible Cause	Solution
No power / no LED	Power adapter disconnected or faulty	Verify DC input voltage. Try a different adapter.
No display output	Display cable loose or BIOS setting	Reseat display cable. Check BIOS display settings.
System freezes	Memory or storage issue	Reseat RAM. Test with known-good SSD. Enable watchdog.
Overheating	Blocked heatsink or high ambient temp	Clean heatsink. Ensure adequate airflow.
Boot loop	Corrupted BIOS or OS	Reset BIOS to defaults (F9). Reinstall OS.

10. Warranty & Support

10.1 Warranty Coverage

The IBOX-605 is covered by a standard manufacturer warranty. The warranty covers defects in materials and workmanship under normal use conditions. It does not cover damage from misuse, unauthorized modifications, or exposure beyond rated specifications.

10.2 Technical Support

IWILL Technology provides worldwide technical support through regional offices:

Region	Website	Email
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10.3 RMA Process

To initiate a return for repair or replacement, contact IWILL Technology support at the regional office nearest to your location with your product serial number and a description of the issue.

Appendix A — Order Information & Accessories

A.1 Order Configurations

Configuration	Description
IBOX-605 CPU Specification	IBOX-605 CPU Specification
Configuration 1 Intel® Core™ i3-8100T St	Configuration 1 Intel® Core™ i3-8100T Standard I/O
Configuration 2 Intel® Core™ i5-8500T St	Configuration 2 Intel® Core™ i5-8500T Standard I/O
Configuration 3 Intel® Core™ i7-8700T St	Configuration 3 Intel® Core™ i7-8700T Standard I/O

A.2 Included Accessories

Item	Qty	Specification
Power Adapter	1	12V 10A / 12V 12.5A optional
Power Cord	1	CN, US, UK, EU etc.
Wall Bracket	2	Standard
CD Driver	1	Neutral

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