



# IBOX-701 PLUS

Fanless Industrial PC

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## Technical Support Documentation

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<b>Product:</b>	IBOX-701 PLUS
<b>Platform:</b>	Intel® Celeron® 3965U/
<b>Classification:</b>	Industrial PC

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*All product specifications are subject to change without notice.*

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# 1. Product Overview

The IBOX-701 PLUS 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
- Intel® Celeron® 3965U/
- Intel® Core™ i5 7360U Processor
- Support WiFi/3G/4G (three choose one)
- 1 x DDR4, Max. 16G
- 1 x MSATA, 1 x 2.5-inch HDD
- 6 x COM (2 x COM RS422/485 optional)
- DC 9 36V, power positive and negative
- reverse protection

## 1.2 Target Applications

The IBOX-701 PLUS is suitable for Automation, Medical, Transportation, Warehouse, Education etc.

## 1.3 Package Contents

Verify the following items are included in the package:

Item	Qty	Description
Power Adapter	1	12V 5A
Power Cord	1	CN, US, UK, EU etc.
Eligible certificate	1	Neutral
Warranty card	1	Neutral
Bracket	2	Standard back hanging
CD Driver	1	Neutral

**NOTE:** If any item is missing or damaged, contact IWILL Technology support immediately at [support@iwilltech.co.uk](mailto:support@iwilltech.co.uk).

## 2. Hardware Specifications

Complete technical specifications for the IBOX-701 PLUS.

SYSTEM	
Model	IBOX-701 PLUS
Processor	Intel® Celeron® 3965U/
Memory	1 x DDR4 1866/2133MHz SODIMM, Max. 16 GB
BIOS	SPI AMI EFI BIOS
Graphics	Intel® HD Graphics 620
Display Ports	1 x VGA (can lead to an HDMI port) 1 x 2.5-inch HDD
Storage	1 x MSATA 1 x Mini PCIe (WiFi/3G/4G Optional), embedded SIM Card Slot
Expansion	1 x Mini PCIe (support MSATA)
Ethernet	2 x Intel i211-AT 10/100/1000Mbps LAN Ports
OS Support	Windows 7, Windows 8, Windows 10, Linux
I/O PORTS	
Ports	2 x USB 2.0 2 x LED light 2 x USB 3.0 2 x Intel LAN Ports 1 x VGA 2 x COM Ports (2 x COM support RS422/RS485 optional 1 x Phoenix Terminal 1 x RST 1 x PCIe 4X + 1 x PCI (2 x PCI/2 x PCIe optional)
POWER & OTHER	
Power Input	DC 9 36V
ENVIRONMENT	
Operating Temp.	-10■ +50■
Humidity	0% ~ 95% (non-condensing)
MECHANICAL	
Dimensions	215 x 185 x 115 mm
Weight	3.0kg

## 3. I/O Interfaces & Connectivity

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### 3.1 Front Io

Connector	Description
2	2 × USB 2.0
2	2 × LED light
2	2 × USB 3.0
2	2 × Intel LAN Ports
1	1 × VGA

### 3.2 Rear Io

Connector	Description
2	2 × COM Ports (2 × COM support RS422/RS485 optional)
1	1 × Phoenix Terminal
1	1 × RST
1	1 × PCIe 4X + 1 × PCI (2 × PCI/2 × PCIe optional)

### Ethernet / LAN

- 2 × Intel i211-AT 10/100/1000Mbps LAN Ports

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

## 4. Mechanical Dimensions

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All dimensions are in millimeters (mm).

Parameter	Value
Overall Dimensions	215 x 185 x 115 mm
Weight	3.0kg

**NOTE:** For detailed technical drawings with mounting hole positions, contact IWILL Technology at [support@iwilltech.co.uk](mailto:support@iwilltech.co.uk).

## 5. BIOS Configuration

The IBOX-701 PLUS uses SPI 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 SPI 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

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### 6.1 Supported Operating Systems

OS	Notes
Windows 7	64-bit, legacy support
Windows 8/8.1	64-bit
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

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### 7.1 Available Expansion Slots

- 1 x Mini PCIe (support MSATA)

### 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 MSATA
- 1 x Mini PCIe (WiFi/3G/4G Optional), embedded SIM Card Slot

## 8. Mounting Guide

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### 8.1 VESA / Desktop Mounting

The IBOX-701 PLUS 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

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## 10.1 Warranty Coverage

The IBOX-701 PLUS 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
United Kingdom	<a href="http://www.iwilltech.co.uk">www.iwilltech.co.uk</a>	<a href="mailto:support@iwilltech.co.uk">support@iwilltech.co.uk</a>
MENA Region	<a href="http://www.iwillmena.com">www.iwillmena.com</a>	<a href="mailto:support@iwillmena.com">support@iwillmena.com</a>
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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-701 Plus CPU Specification	IBOX-701 Plus CPU Specification
Configuration 1 Intel® Celeron® 3965U St	Configuration 1 Intel® Celeron® 3965U Standard Port ,PCIe 4x+PCI
Configuration 2 Intel® Core™ i5-7360U St	Configuration 2 Intel® Core™ i5-7360U Standard Port ,PCIe 4x+PCI

## A.2 Included Accessories

Item	Qty	Specification
Power Adapter	1	12V 5A
Power Cord	1	CN, US, UK, EU etc.
Eligible certificate	1	Neutral
Warranty card	1	Neutral
Bracket	2	Standard back hanging
CD Driver	1	Neutral

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