

[Manuals.plus](#) /

› [origimagic](#) /

› ORIGIMAGIC N3 Dual Thunderbolt 4 Mini PC User Manual

## origimagic N3

# ORIGIMAGIC N3 Dual Thunderbolt 4 Mini PC User Manual

Model: N3 | Brand: origimagic

## INTRODUCTION

The ORIGIMAGIC N3 Mini PC is a compact yet powerful desktop computer designed for professional, business, and multimedia use. Featuring a 12th Gen Intel Core i7-12700H processor, 32GB DDR4 RAM, and a 512GB NVMe SSD, it offers high performance for demanding tasks. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your N3 Mini PC.

## Key Features

- **12th Gen Intel Core i7-12700H Processor:** 14 cores, 20 threads, up to 4.7GHz for professional power.
- **Intel Iris Xe Graphics:** Capable of delivering 8K UHD visuals.
- **32GB DDR4 RAM & 512GB NVMe SSD:** High-speed memory and storage with expansion options.
- **Dual Thunderbolt 4 Ports:** 40 Gbps data transfer, 8K video output, external GPU support, and bidirectional power.
- **Quad-Screen Display Support:** Connect up to four displays (2x HDMI 4K@60Hz, 2x Thunderbolt 4 8K@60Hz).
- **Advanced Connectivity:** WiFi 6E (Intel AX201), Bluetooth 5.2, and 2.5G RJ45 LAN.
- **Efficient Heat Dissipation:** Designed for stable performance and quiet operation.

## WHAT'S IN THE BOX

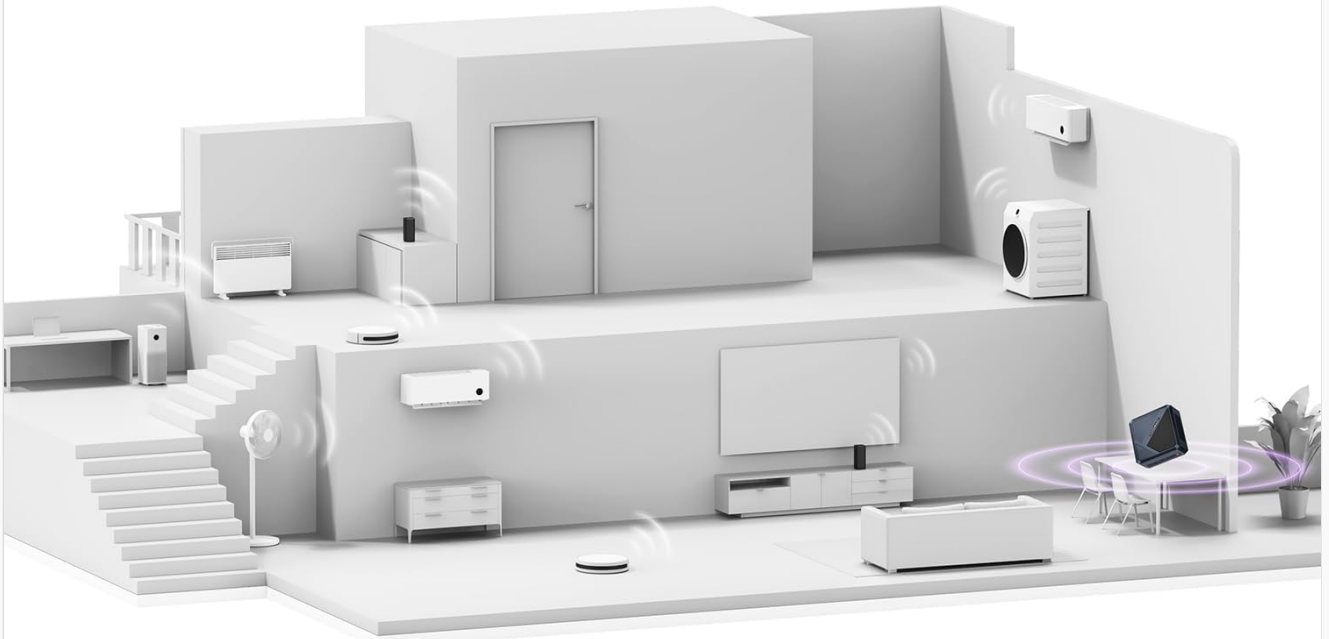
Upon unpacking your ORIGIMAGIC N3 Mini PC, please verify that all items listed below are included:

- 1x ORIGIMAGIC N3 Mini PC - Intel Core i7 12700H
- 1x Power adapter
- 1x VESA mount with screws
- 1x HDMI cable

- 1x User manual

# Powerful wireless connectivity

Wi-Fi6(802.11 a/b/g/n/ac/ax)2.4G/5.0G + Bluetooth:5.2



## WiFi 6

Compared to WiFi 5, the WiFi 6 maximum transfer rate has been increased from 3.5Gbps of the former to 9.6Gbps, which is nearly three times the theoretical speed.



## Bluetooth 5.2

Bluetooth 5.2 for faster, more stable connections with extended range and improved efficiency

Image: The contents of the ORIGIMAGIC N3 Mini PC box, including the mini PC, power adapter, VESA mount, HDMI cable, and user manual.

Video: An unboxing video demonstrating the contents of the ORIGIMAGIC N3 i7-12700H Mini PC package.

## SETUP GUIDE

### 1. Connecting Peripherals

Connect your monitor(s), keyboard, mouse, and other necessary peripherals to the available ports on the N3 Mini PC. The device supports quad-screen display via 2x HDMI (4K@60Hz) and 2x Thunderbolt 4 (8K@60Hz) ports.

## 2.5G RJ45 LAN

Compared to traditional Gigabit ports, 2.5Gbps ports have a speed twice that of Gigabit ports, improving user experience and satisfaction with the network.



Image: Detailed view of the N3 Mini PC's rich interfaces, including DC power, Thunderbolt 4, HDMI, 2.5G RJ45 LAN, USB 3.2 Gen2, USB 2.0, and audio jack.



## HIGHLY EFFICIENT HEAT DISSIPATION

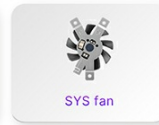
Efficient and stable heat dissipation system, quiet operation



CPU Fan



Heat Conduits



SYS fan

Image: An example setup demonstrating the N3 Mini PC supporting a quad-screen display for enhanced productivity and entertainment.

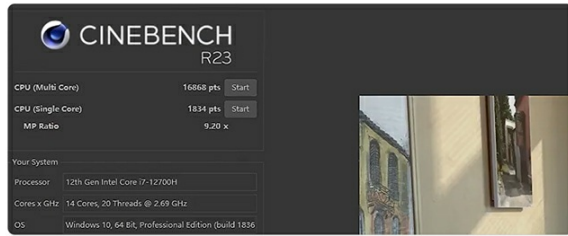
## 2. Power On

Connect the power adapter to the DC input port on the Mini PC and then to a power outlet. Press the power button located on the front of the device to turn it on.

## 3. VESA Mount Installation (Optional)

The N3 Mini PC includes a VESA mount for convenient attachment to the back of a compatible monitor or wall.

1. Fix the VESA bracket to the Mini PC using the provided screws.
2. Fix the bracket to the back of your display or a wall using appropriate screws.

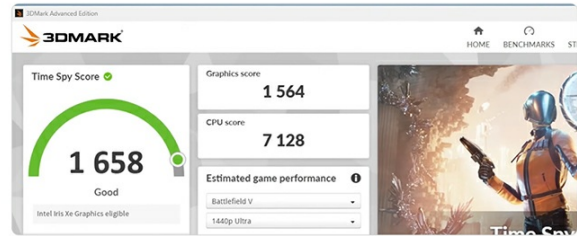


Cinebench 23 running score

**16868**

Intel Core i7-12700H

Intel Core i5-12600H



3DMARK Performance

**1658**

Intel Core i7-12700H

Intel Core i5-12600H

Image: Step-by-step guide for installing the N3 Mini PC using the VESA mount on the back of a monitor.

## 4. BIOS Settings

To access the BIOS settings, press the designated key (usually Del or F2) repeatedly during startup. Here you can configure various system options, including power-on wake-up settings.

Video: A demonstration of accessing and configuring BIOS settings on an ORIGIMAGIC Mini PC, including power-on wake-up options.

## OPERATING INSTRUCTIONS

### 1. Initial Boot and OS Setup

The N3 Mini PC comes with Windows 11 Pro pre-installed. Follow the on-screen instructions to complete the initial operating system setup, including language, region, network connection, and user account creation.

### 2. Everyday Use

The N3 Mini PC is suitable for a wide range of applications, from office tasks and online learning to multimedia consumption and light gaming. Its powerful Intel Core i7-12700H processor and Iris Xe Graphics ensure smooth performance.

## EXPANDABLE STORAGE

Expandable M.2 2242 SATA SSD

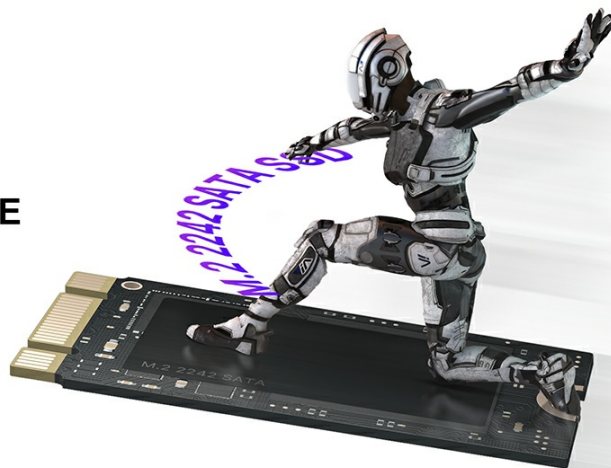


Image: The N3 Mini PC efficiently managing various applications simultaneously, including office software, YouTube, design tools, rendering, and video editing.

### 3. Network and Wireless Connectivity

Utilize the 2.5G RJ45 LAN port for high-speed wired internet or connect wirelessly via WiFi 6E for faster browsing, streaming, and gaming with lower latency and improved interference resistance. Bluetooth 5.2 provides stable wireless connections for peripherals.

**TRUSTWORTHY BRAND & EXCELLENT TEAM: QUALITY EXPERIENCE GUARANTEED**

Replacement Support

Maintenance Support

Quality Support

If you encounter any technical or usage issues, please visit the Technical Support page on the ORIGINAGIC official website for professional assistance. Your satisfaction is our top priority!

Image: A close-up of the 2.5G RJ45 LAN port on the N3 Mini PC, highlighting its high-speed network capabilities.

**HANDLE MULTIPLE APPLICATIONS EASILY**

Office Youtube Design Rendering Video Editing

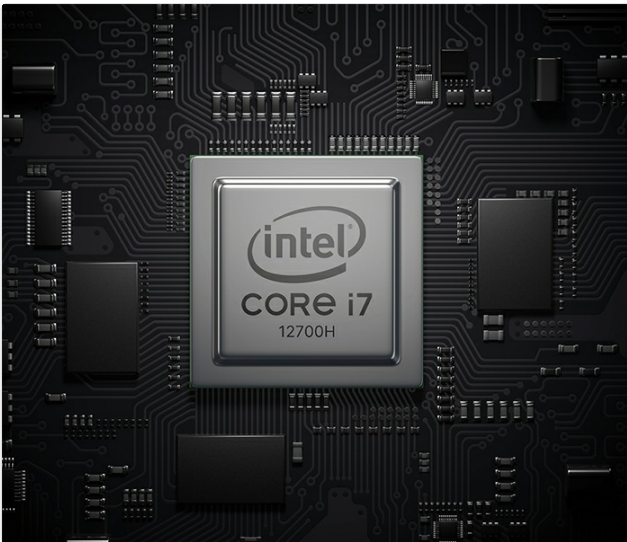
Ai Pr Ae Ps P X

Image: Overview of the N3 Mini PC's powerful wireless connectivity, including WiFi 6 and Bluetooth 5.2, for fast and stable connections.

## MAINTENANCE

### 1. Storage and RAM Expansion

The N3 Mini PC supports expandable storage and RAM. You can upgrade the 32GB DDR4 RAM to 64GB and expand storage with an additional M.2 SATA 2242 SSD.



## Intel Core i7-12700H

**14 C 20 T**  
24MB L3 Cache

**4.70 GHz**  
Max. Boost Clock

**45 W**  
Default TDP

Image: Illustration of the N3 Mini PC's standard configuration with 32GB DDR4 RAM and 512GB NVMe PCIe 3.0 SSD.

## CPU DATA COMPARISON

■ Intel Core i7-12700H ■ Intel Core i5-12600H

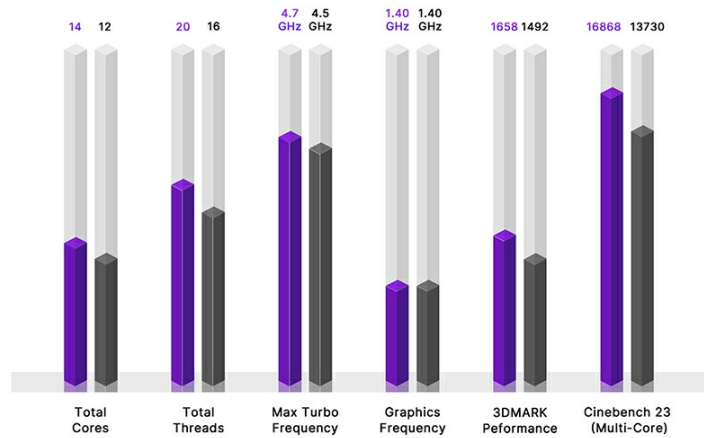


Image: Visual representation of the expandable M.2 SATA 2242 SSD slot for additional storage.

Video: A guide demonstrating how to replace or upgrade the memory and hard drive in the ORIGIMAGIC I7-12700H Mini PC.

Video: An internal structure overview of the ORIGIMAGIC N3 i7-12700H Mini PC, showing components and upgrade points.

## 2. Heat Dissipation

The N3 Mini PC features an efficient heat dissipation system to ensure stable performance and quiet operation, even during intensive tasks.

## Multi-function Thunderbolt 4

- PD 3.0 power supply
- 10Gbps data transmission
- Supports 8K video output



Image: Diagram illustrating the highly efficient heat dissipation system of the N3 Mini PC, including CPU fan, heat conduits, and SYS fan.

## TROUBLESHOOTING

If you encounter any issues with your N3 Mini PC, please refer to the following general troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- **No Display:** Check all monitor cable connections. Ensure the monitor is powered on and set to the correct input source.
- **Network Issues:** For wired connections, verify the Ethernet cable is properly connected. For Wi-Fi, check your router and ensure the Mini PC is within range.
- **System Unresponsive:** Perform a hard reboot by holding the power button for 5-10 seconds until the device powers off, then restart.

For more detailed troubleshooting or persistent issues, please contact ORIGIMAGIC customer support.

## SPECIFICATIONS

Feature	Detail
Processor	Intel Core i7-12700H (14 Cores, 20 Threads, up to 4.7 GHz)
Graphics	Intel Iris Xe Graphics (Integrated)
RAM	32GB DDR4 (SODIMM, 3200 MHz, expandable to 64GB)
Storage	512GB NVMe SSD (PCIe 3.0 x4), expandable M.2 SATA 2242 SSD slot
Operating System	Windows 11 Pro
Video Output	2x HDMI (4K@60Hz), 2x Thunderbolt 4 (8K@60Hz) - Quad Display Support
Networking	WiFi 6E (802.11ax), Bluetooth 5.2, 2.5G RJ45 LAN
USB Ports	3x USB 3.0, 2x Thunderbolt 4 (USB-C compatible)
Dimensions	3.64 x 3.64 x 1.31 inches

Feature	Detail
Weight	2.59 pounds

## WARRANTY AND SUPPORT

All ORIGIMAGIC mini PCs come with a 2-year limited warranty. For any usage or technical issues, please refer to the following support options:

- **Amazon Support:** Contact us on Amazon by logging into your account, navigating to 'Your Orders', and selecting 'Ask Product Question'.
- **After-Sales Support:** Send an email to the After-Sales Team at [support@origimagic.com](mailto:support@origimagic.com) for 24/7 customer support.

Your satisfaction is our priority. For additional resources, please visit the ORIGIMAGIC official website's technical support page.

### COMBINING SPEED AND CAPACITY

Standard configuration: Dual channel 32GB (16GB \* 2) DDR4 3200MHz, 512GB M.2 2280 NVMe PCIe3.0 SSD

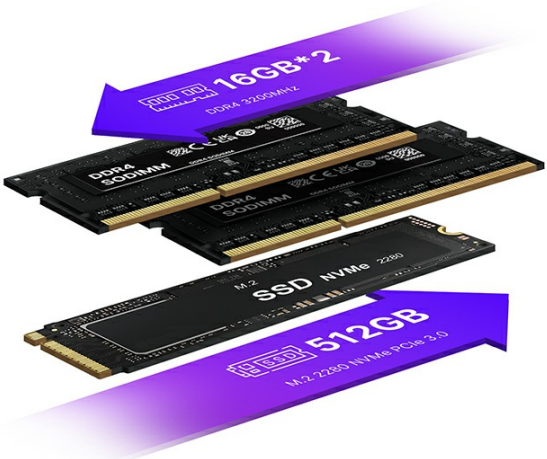


Image: The ORIGIMAGIC support team highlighting replacement, maintenance, and quality support services.