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› GMKtec K11 Mini PC User Manual

## GMKtec K11

# GMKtec K11 Mini PC User Manual

Model: K11

## INTRODUCTION

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This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your GMKtec K11 Mini PC. Please read this manual thoroughly before using the product to ensure proper functionality and longevity.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

# RETAIL BOXED PACKAGING



1.Nucbox K11 Mini PC

2.Power Supply & Cable

3.User Manual

4. HDMI Cable

5.VESA Mount with Screws

*Image showing the GMKtec K11 Mini PC and its included accessories: power supply, HDMI cable, user manual, and VESA mount with screws.*

- 1x GMKtec K11 Mini PC
- 1x Power Supply & Cable
- 1x HDMI Cable
- 1x User Manual
- 1x VESA Mount with Screws

## PRODUCT OVERVIEW



The GMKtec K11 Mini PC is a high-performance desktop computer designed for gaming, content creation, and professional tasks. It features an AMD Ryzen 9 8945HS processor, DDR5 RAM, and PCIe 4.0 SSD storage.


### Front Panel

**DUAL 2.5G HIGH SPEED ETHERNET**

Intel i226V DUAL LAN RJ45 NETWORK  
COMPATIBLE WITH LINUX UBUNTU ESXI VMWARE

Read/Write Speed

2.5Gbps LAN  2.5x 

1000Mbps LAN 

**2500 MB/S**

Front view of the GMKtec K11 Mini PC, highlighting the Oculink port, USB4 port, USB 3.2 (Gen2) ports, 3.5mm audio jack, and power button.

Front view of the GMKtec K11 Mini PC, highlighting the Oculink port, USB4 port, USB 3.2 (Gen2) ports, 3.5mm audio jack, and power button.

- **Oculink Port:** PCIe 4.0 x4 for external graphics card connectivity.

- **USB4 Port:** Type-C with Power Delivery, DisplayPort, and Data.
- **USB 3.2 (Gen2) Ports:** High-speed data transfer.
- **3.5mm Audio Jack:** For headphones or speakers.
- **Power Button:** To power on/off the device.

## Rear Panel

**OCULINK PORT**  
Transforming Graphics Card Connectivity

Oculink has introduced a new era of graphics card connectivity with its exceptional performance and versatility

Attention: This interface does not support hot swapping! Please plug and unplug this interface when the PC is powered off

Rear view of the GMKtec K11 Mini PC, showing USB 2.0 ports, DisplayPort 2.1, HDMI 2.1, dual 2.5 Gigabit LAN ports, and DC power input.

- **USB 2.0 Ports:** For connecting peripherals.

- **DisplayPort 2.1:** Supports 4K@144Hz output.
- **HDMI 2.1:** Supports 8K@60Hz output.
- **2.5 Gigabit LAN Ports (RJ45):** Dual Intel i226V for high-speed network connectivity.
- **DC IN:** Power input (19V, 6.32A).
- **Kensington Lock Slot:** For security.

## SETUP AND INITIAL USE

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### Connecting Peripherals

Connect your monitor(s) to the HDMI, DisplayPort, or USB4 ports. Connect your keyboard, mouse, and other USB devices to the available USB ports.

### Powering On

Connect the power adapter to the DC IN port on the rear panel and then to a power outlet. Press the power button on the front panel to turn on the Mini PC.

### Operating System Setup

The GMKtec K11 comes with Windows 11 Pro pre-installed. Follow the on-screen instructions to complete the initial setup of the operating system.

## OPERATING THE MINI PC

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### Performance Modes

The K11 Mini PC features three performance modes accessible via the UEFI (BIOS) settings:

# HDMI 2.1

EXPERIENCE 8K HD QUALITY

## Read/Write Speed

HDMI 2.1

48Gbps

HDMI 2.0

18Gbps

HDMI 1.4

10.2Gbps



Image illustrating the three performance modes: Silent (35W TDP), Balance (54W TDP), and Performance (65-70W TDP), along with CPU temperatures and noise levels.

- **Silent Mode (35W TDP):** Optimized for quiet operation and energy efficiency.
- **Balance Mode (54W TDP):** Provides a balance between performance and noise.
- **Performance Mode (65-70W TDP):** Maximizes CPU performance for demanding tasks.

## Multi-Display Setup

The K11 supports up to four 4K displays simultaneously via HDMI 2.1, DisplayPort 2.1, and dual USB4 ports.

# EASY INSTALLATION

Disassembled design, upgrade RAM and SSD easy and convenient

## SSD M.2 2280

DUAL SLOT SSD M2 2280\*2  
MAX CAPACITY: 8TB

**MAX 4TB EACH SLOT**

## DDR5 5600MHz

Dual Channel SO-DIMM\*2  
MAX CAPACITY: 64GB

**MAX 32GB EACH SLOT**



*Image demonstrating a quad-monitor setup connected to the GMKtec K11 Mini PC, showcasing its multi-display capabilities.*

## Network Connectivity

The Mini PC is equipped with dual Intel i226V 2.5 Gigabit LAN ports, Wi-Fi 6, and Bluetooth 5.2 for robust network and wireless connections.

# RICH INTERFACE

For Business, Office, Gaming, Home



2.5G LAN\*2



USB 4.0\*2



HDMI 2.1



DP2.1



USB\*2



CTIA



OcuLink

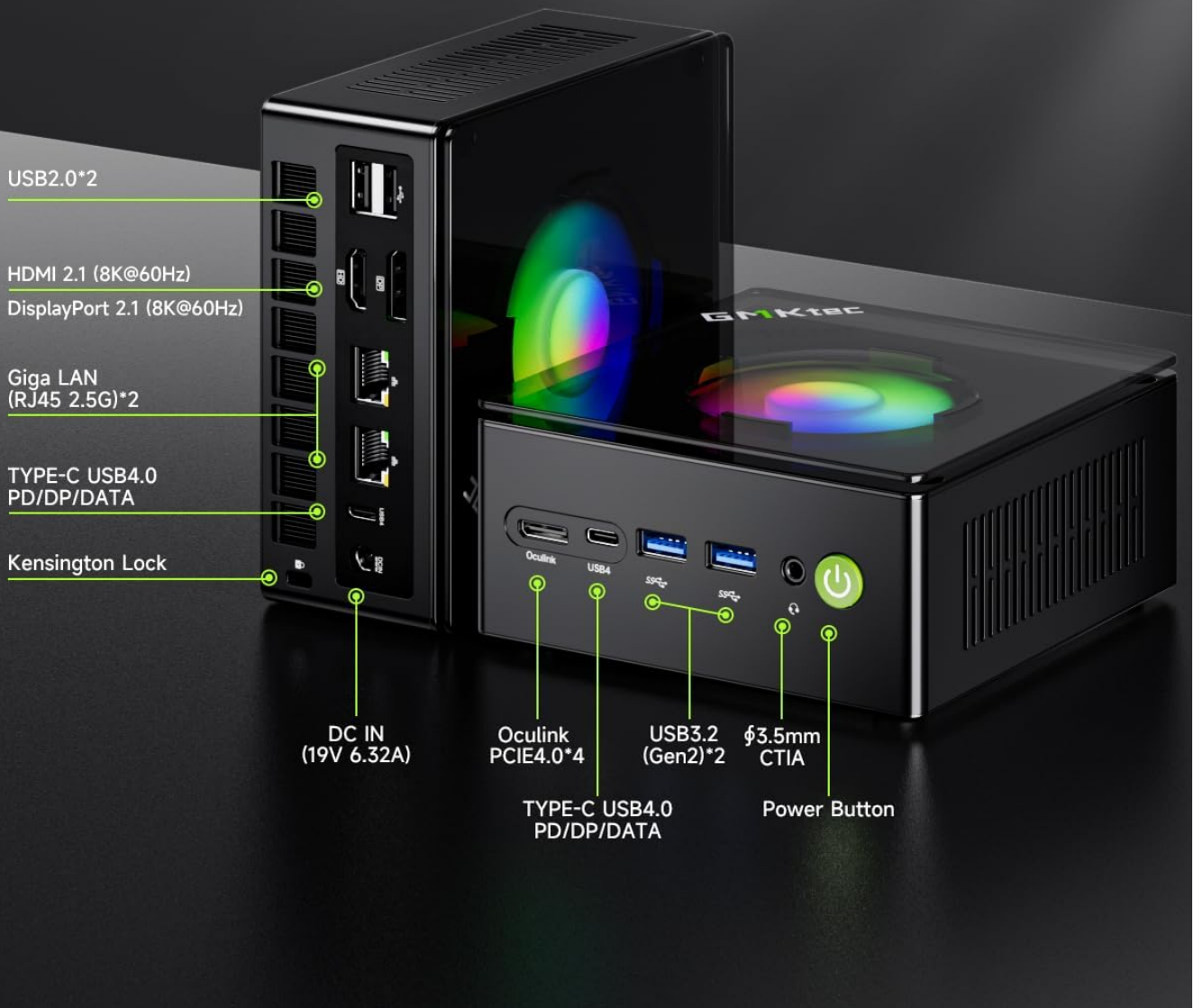
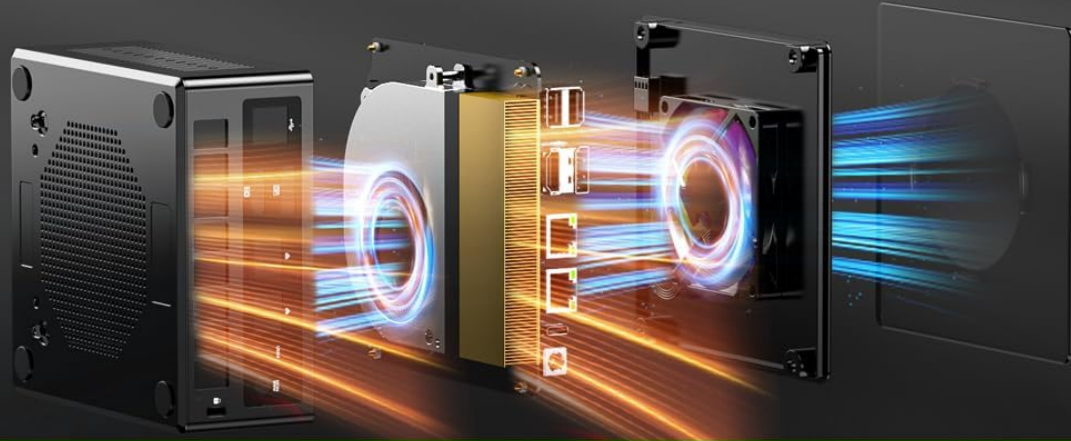


Image showing the dual 2.5G Ethernet ports and illustrating high-speed data transfer.

## Oculink Connectivity

The Oculink port provides a high-bandwidth PCIe x4 connection for external graphics cards (eGPU setups), offering enhanced graphics performance for gaming and demanding applications.

# 70W



Power	CPU (Celcius)	Noise (dB)
Quiet (35-40W TDP)	50	32-35
Normal (54-60W TDP)	65	36-37
Performance (65-70W)	75	39-40



The VRAM memory allocation can be adjusted up to 16GB

Image showing the GMKtec K11 Mini PC connected to an external graphics card via the Oculink port, demonstrating enhanced gaming performance.

**Attention: The Oculink interface does not support hot-swapping. Please plug and unplug this interface only when the PC is powered off.**

## MAINTENANCE AND UPGRADES

### Accessing Internal Components

To upgrade RAM or SSD, you will need to open the Mini PC. Follow the steps shown in the video below:

Your browser does not support the video tag.

This video demonstrates how to open the GMKtec K11 Mini PC, remove the top cover, unscrew the internal components, and access the SSD and RAM slots for upgrades. It also shows the thermal paste application process.

## RAM Upgrade

The K11 supports up to 64GB of DDR5 5600MHz SO-DIMM RAM across two slots (max 32GB per slot).

# AMD RYZEN 9 8945HS

<b>4.0~5.2</b> GHz	<b>8</b> Cores	<b>16</b> Threads	<b>16 MB</b> Cache
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Geekbench 6 (Single-Core)		Geekbench 6 (Multi-Core)	
<b>Ryzen 9 8945HS</b>	<b>2397</b>	<b>Ryzen 9 8945HS</b>	<b>11875</b>
i9-12900H	2394	i9-12900H	11874
R7 8745HS	2079	R7 8745HS	10794
R9 6900HX	2004	R9 6900HX	10271
R7 5800H	1957	R7 5800H	8100

Internal view of the Mini PC showing the two DDR5 SO-DIMM slots and two M.2 2280 SSD slots.

## SSD Upgrade

The Mini PC supports two PCIe 4.0 M.2 2280 SSDs, with a maximum capacity of 4TB per slot (total 8TB).

## TROUBLESHOOTING

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### No Power

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- Check if the power button illuminates when pressed.
- Try a different power outlet.

### No Display

- Verify that the monitor is powered on and the correct input source is selected.
- Check all display cable connections (HDMI, DisplayPort, USB4).
- Try connecting to a different display port or a different monitor.

### System Slowdown

- Check the performance mode settings in the BIOS.
- Ensure adequate ventilation around the Mini PC to prevent overheating.
- Close unnecessary applications running in the background.
- Consider upgrading RAM or SSD if performance issues persist.

## SPECIFICATIONS

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Feature	Specification
Brand	GMKtec
Model Name	K11
Operating System	Windows 11 Pro
CPU Model	AMD Ryzen 9 8945HS (8 Cores / 16 Threads, up to 5.2 GHz)
Graphics Coprocessor	Integrated Graphics (AMD Radeon 780M)
RAM Installed Size	32 GB DDR5
Max RAM Size	64 GB
Memory Speed	5600 MHz
Storage Capacity	1 TB PCIe 4.0 SSD
Hard Disk Interface	PCIe x 16
Connectivity Technology	Bluetooth 5.2, Dual 2.5G Ethernet, Wi-Fi 6 (802.11ax)
Video Output	HDMI 2.1, DisplayPort 2.1, USB4
Max Display Resolution	3840x2160 (4K)

Power Consumption	35 Watt (TDP, configurable up to 70W)
Special Features	Oculink Connection, 4K Support, Dual Network Card, AI Acceleration
Compatible Devices	Monitor, Keyboard, Mouse, Speaker, Printer, Projector, Smartphone

## WARRANTY AND SUPPORT

GMKtec offers a limited 3-year warranty for each Mini PC (1 year replacement, 2 years repair) from the date of purchase. This covers defects related to design or manufacturing.

### Contact Support

For Amazon-related support, log in to your Amazon account, go to "Your Orders," and select "Ask Product Question." For after-sales support, you can email the After-Sales Team at [eu-cs@gmktec.com](mailto:eu-cs@gmktec.com). 24/7 customer support is available.



Image detailing Amazon Support contact method and After-Sales Support email address.