MINI WORKSTATION W638

USER GUIDE

Read this guide carefully before use and keep it for future reference.

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01 | Important Precautions

This document provides guidance only. Its statements, information and recommendations do not constitute any express or implied warranty.

Read these safety precautions before use and follow them strictly. Product photos and diagrams are for reference only; the actual product governs.

Precautions

1. Keep the device dry during storage, transport and use, and protect it from strong impacts.
2. Place the device in a ventilated area away from strong direct light.
3. Keep the device away from heat sources, open flames and strong magnetic fields.
4. Keep the area clean and free of dust. Operating temperature: –20 to 40 °C; humidity: 10% to 90%.
5. Do not disassemble the device. Contact qualified service personnel if it fails.
6. Connect the power adapter before turning on the device for the first time.
7. If an adapter is used, it must meet applicable standards and have CCC certification.
8. Replacing the battery with an incorrect type may cause fire or explosion.
9. This product contains a coin-cell battery. If swallowed, it can cause severe internal burns within two hours and may be fatal.
10. Seek medical attention immediately if you suspect a battery has been swallowed or placed inside any part of the body.

Precautions (continued)

11. If the battery compartment does not close securely, stop using the product and keep it away from children.
12. Keep new and used batteries away from children.
13. Do not expose batteries or battery packs to excessive heat, such as sunshine or fire.

Instructions for Use

1. Use the supplied accessories and manufacturer-recommended parts, such as power adapters and batteries.
2. Do not block the air outlets. Doing so may cause overheating.
3. Prevent water and other liquids from entering the device to avoid damage or electric shock.
4. Before connecting or disconnecting cables, stop using the device, disconnect power and keep your hands dry.
5. Avoid frequent restarts and power cycles to extend the service life of the computer.
6. If the device will not be used for a long time, disconnect power and all attached cables.
7. Back up important data promptly. The company accepts no liability for data loss under any circumstances.
8. If smoke, abnormal noise or odor occurs, stop use immediately, disconnect power and all cables, and contact qualified service personnel.
9. No organization or person may modify the device's structure or safety design without authorization. The party making the change assumes all resulting consequences.

02 | Initial Inspection

Before first use, read and retain the safety information in this guide.
After unpacking, inspect the product for damage and confirm that all items are present.
Package contents:

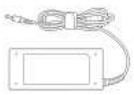


Black



Silver

Mini Workstation × 1



Power Adapter × 1

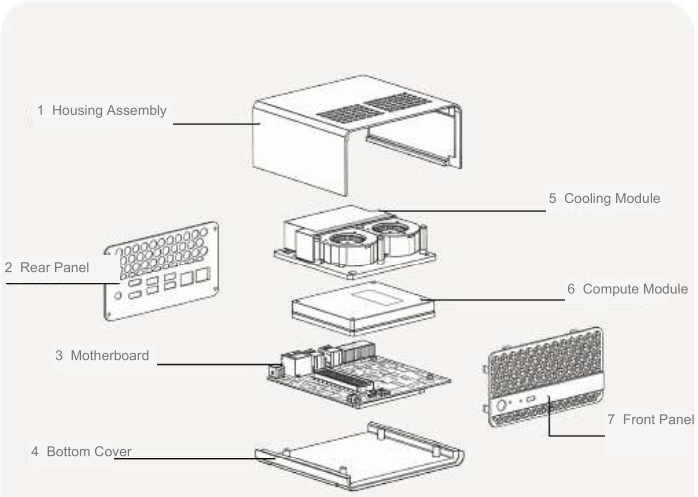


Power Cable × 1

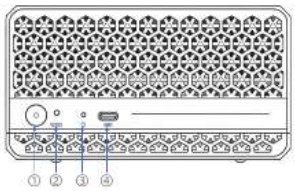


User Guide × 1

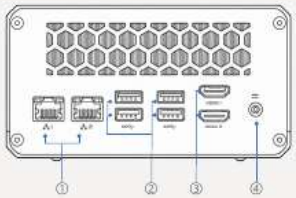
03 | Product Overview



Note: Actual product appearance may vary.



1 Power button
2 SSD activity LED: off when idle; flashes during data transfer.
3 Recovery button: With power off, hold it while powering on. Release after 5 s to enter flashing mode.
4 USB 3.2 Type-C port



1 RJ45: 2 × 10GbE Ethernet ports
2 USB 3.2: 4 × USB 3.2 Gen 1 Type-A ports
3 HDMI 2.1: 2 ports; up to 4096 × 2160 @ 60 Hz
4 DC IN: 19 V input

CERTIFICATE OF CONFORMITY

QC
PASS
01

Inspector: _____

Note: Illustrations in this guide are for reference only. The actual product governs. Specifications are subject to change without notice. Unauthorized copying or reproduction may incur legal liability. Shenzhen JWIPC Technology Co., Ltd. reserves the right of final interpretation.

04 | Specifications

Compute	**Module**	Jetson T4000	Jetson T5000
	CPU	12-core Arm® Neoverse®-V3AE 64-bit	14-core Arm® Neoverse®-V3AE 64-bit
	GPU	1,536-core NVIDIA Blackwell GPU; 64 fifth-gen Tensor Cores; MIG with 6 TPCs	2,560-core NVIDIA Blackwell GPU; fifth-gen Tensor Cores; MIG with 10 TPCs
	Memory	64 GB	128 GB
	AI Performance	1,200 sparse FP4 TFLOPS	2,070 sparse FP4 TFLOPS
I/O	**USB**	4 × USB 3.2 Type-A; 1 × USB 3.2 Type-C	
	LED	1 × SSD activity LED	
	Button	1 × power button	
Video	**GPU**	NVIDIA Blackwell GPU	
	Output	2 × HDMI 2.1; up to 4096 × 2160 @ 60 Hz	
Storage	**Drive**	NVMe M.2 SSD (1 TB/2 TB)	
Network	**Ethernet**	2 × 10GbE RJ45	
	Wi-Fi	Wi-Fi 5/6	
	Bluetooth	Bluetooth 5.3	
Power	**Input**	19 V DC input	
	Consumption	180 W	
System	**OS**	NVIDIA Ubuntu 24.04 (JetPack 7.1)	
	Watchdog	255 programmable steps, seconds/minutes	
Installation	**Mounting**	Standard desktop installation	
Environment	**Temperature**	−20 to 40 °C	
	Humidity	10% to 90%, non-condensing	
Size	**Weight**	1.3 kg	
	Dimensions	130 × 125 × 75 mm (L × W × H)	

05 | Safety Information

Safety Precautions and Service

WARNING: Controls, adjustments or procedures not described in this document may create impact, electrical or mechanical hazards.

Read and follow the precautions below when connecting and using the device.

Operation

• Keep the product out of direct sunlight and away from stoves and other heat sources.
• Remove objects that obstruct heat dissipation from the electronics.
• Use only an approved power adapter supplied by the company. Contact your local service center if it is missing.
• Do not subject the device to severe vibration or impact during use.
• Failures or damage caused by misuse or improper installation or adjustment by users or third parties.
• Failures or damage not caused by product defects.
• Do not strike the screen or drop the device during use or transport.

Maintenance

• Do not press excessively on the LCD panel.
• Unplug the power adapter if the device will not be used for a long time.
• Unplug the adapter before cleaning with a slightly damp cloth. When power is off, a dry cloth may be used on the screen. Never use organic solvents such as alcohol or water-containing liquids.

Maintenance (continued)

• If the device becomes wet or damp, dry it promptly with a cloth and send it to a service center for inspection.
• If foreign matter or water enters the device, turn it off and unplug the power cord immediately. Remove the foreign matter or dry the water, then send it for service.
• Do not store or operate the device in hot, directly sunlit or extremely cold locations.
• For optimum performance and longer service life, use the device within the specified temperature and humidity ranges.

Normal Operating Conditions

• Temperature: −20 to 40 °C.
• Humidity: 10% to 90%, non-condensing.
• Atmospheric pressure: 85 to 105 kPa.

Service

• Only qualified service personnel may open the device.
• Contact your local service center for repair or replacement parts.

06 | Warranty Terms

Thank you for choosing our product. Read the user guide and these warranty terms before use.

- The free-warranty period and its start date are governed by the contract terms.
- Subject to parts availability, the company offers lifetime repair service. Products within the free-warranty scope specified by this card receive free service nationwide. Paid repair is available for products outside that scope.
- If the product needs repair, contact your dealer promptly. We will repair the device as quickly as possible.
- If the product is damaged on arrival, contact the selling dealer to arrange a replacement.

The following are excluded from free warranty:

- Failure or damage during transport, loading or unloading.
- Failure caused by unauthorized disassembly or modification, water or other liquid ingress, or other human factors.
- Failure caused by use outside the specified environmental conditions.
- Failure caused by software or viruses.
- Failure or damage caused by force majeure, such as fire or earthquake.
- Failure or damage caused by misuse or improper installation or adjustment by users or third parties.
- Failure or damage not attributable to product defects.
- A missing or damaged product nameplate or tamper-evident label, or a label that does not match the device.
- Expiry of the free-warranty period.

07 | Product Warranty Card

Customer Information	Name		
	Phone		
	Contact Address		
Product Information	Model		
	Serial Number		
Purchase Date			
Seller			
Service Record			
Date	Fault Description	Service Performed	Remarks

Information on Hazardous Substances in the Product

Component	Hazardous Substances									
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE	DBP	BBP	DEHP	DIBP
Circuit board assembly	X	O	O	O	O	O	O	O	O	O
Memory (if supplied)	X	O	O	O	O	O	O	O	O	O
Storage device (if supplied)	X	O	O	O	O	O	O	O	O	O
Metal structural parts (if supplied)	X	O	O	O	O	O	O	O	O	O
Cooling module (if supplied)	X	O	O	O	O	O	O	O	O	O
Power adapter (if supplied)	X	O	O	O	O	O	O	O	O	O
Keyboard (if supplied)	X	O	O	O	O	O	O	O	O	O
Optical drive (if supplied)	X	O	O	O	O	O	O	O	O	O
Antenna (if supplied)	X	O	O	O	O	O	O	O	O	O
RF cable (if supplied)	X	O	O	O	O	O	O	O	O	O
Display (if supplied)	X	O	O	O	O	O	O	O	O	O
Camera (if supplied)	X	O	O	O	O	O	O	O	O	O

Note 1: O means the substance in all homogeneous materials of the component is below the limit required by the national standard for restricted use of hazardous substances in electrical and electronic products.

X means the substance in at least one homogeneous material of the component exceeds that limit.

Note 2: Components not listed above meet the national limits for hazardous substances in electr
electronic products.

