AI Mini Workstation
W638

NVIDIA Jetson AGX Thor

Product Overview

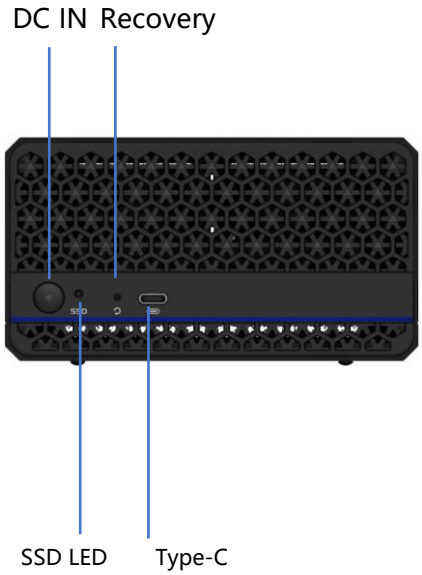
The W638 workstation is powered by the NVIDIA Jetson Thor T5000/T4000 module. Designed for local development and inference of generative AI, large language models and multimodal agents such as OpenClaw, it combines efficient cooling and stable power delivery for sustained high-performance computing. High-speed I/O and flexible expansion support large data workloads, making it suitable for AI research, intelligent content creation and complex edge inference.

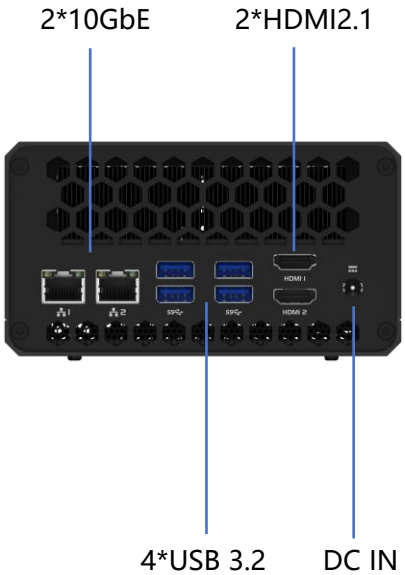
Product Features



- NVIDIA Jetson AGX Thor module
- Unified memory: up to 128 GB and 273 GB/s bandwidth
- Up to 2,070 FP4 TFLOPS of AI performance
- Native support for OpenClaw, NemoClaw and Hermes
- Up to 14-core Arm® Neoverse®-V3AE 64-bit CPU
- 2 × 10GbE RJ45 ports
- 4 × USB 3.2 Type-A; 1 × USB 3.0 Type-C
- Wi-Fi 6 and Bluetooth support
- 2 TB NVMe SSD
- Compact, plug-and-play desktop design; no rack required
- Local deployment and processing; no cloud upload required

I/O Layout





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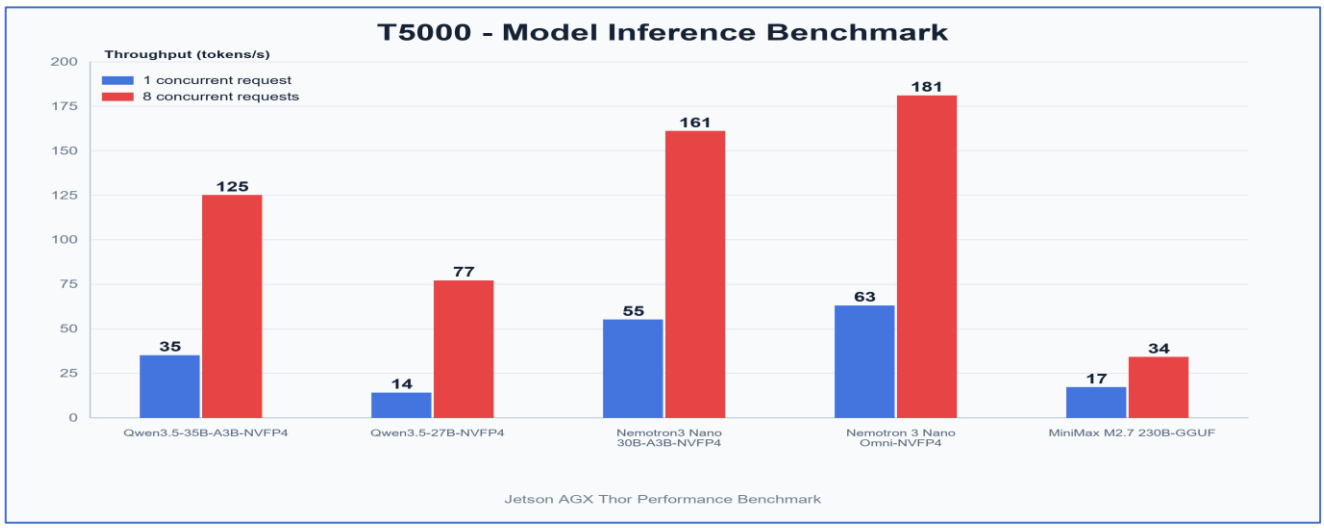
Specifications

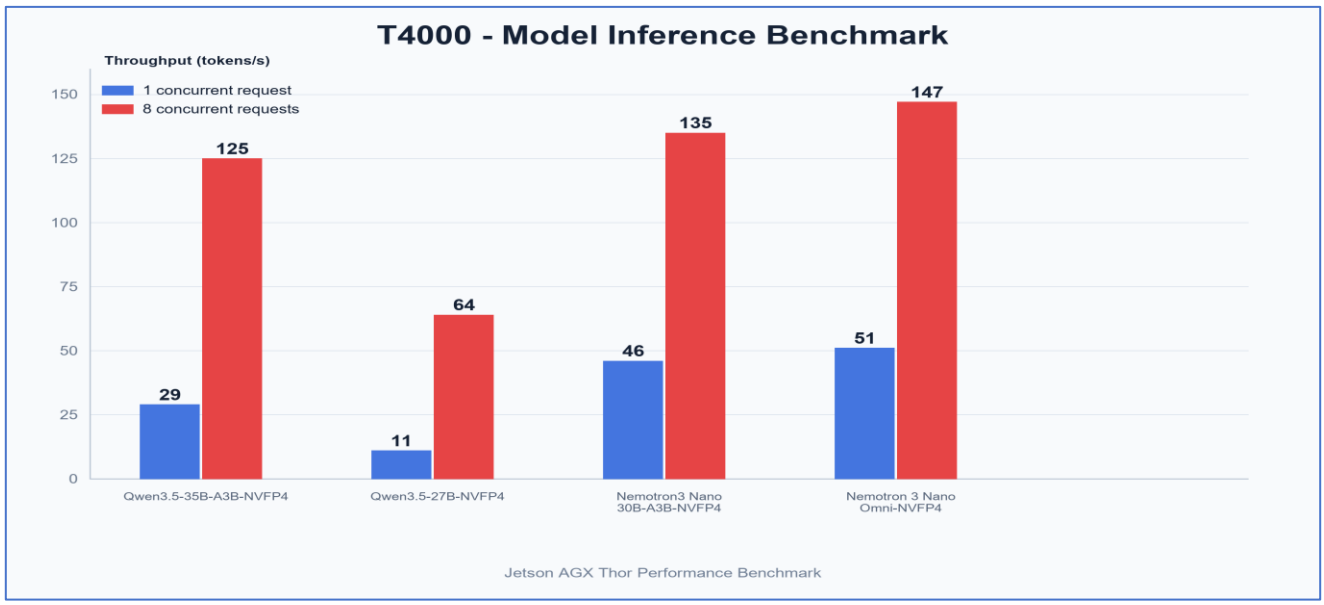
		W638	
Compute	Module	Jetson T4000	Jetson T5000
	CPU	12-core Arm® Neoverse®-V3AE 64-bit	14-core Arm® Neoverse®-V3AE 64-bit
	GPU	1,536-core NVIDIA Blackwell GPU; 64 fifth-gen Tensor Cores; MIG with 6 TPCs	2,560-core NVIDIA Blackwell GPU; fifth-gen Tensor Cores; MIG with 10 TPCs
	Memory	64 GB	128 GB
	AI Performance	1200 Sparse FP4 TFLOPs	2070 Sparse FP4 TFLOPs
I/O Ports	USB	4 × USB 3.2 Type-A; 1 × USB 3.0 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 Capacity	NVMe M.2 SSD (1 TB/2 TB)	
Networking	Wired LAN	2 × 10GbE RJ45	
	Wi-Fi	Wi-Fi 5/6	
	Bluetooth	BT 5.3	
Power & Consumption	Power Input	24 V DC input	
	Power Consumption	200 W	
System	OS Support	NVIDIA Ubuntu 24.04 (JetPack 7.1)	
	Watchdog	255 programmable steps, seconds/minutes	
Installation	Mounting	Standard desktop installation	
Operating Environment	Temperature	−20 to 40 °C	
	Humidity	10% to 90%, non-condensing	
Weight & Dimensions	Weight	1.3 kg	
	Dimensions (L × W × H)	130 × 125 × 75 mm	

Software Ecosystem

- Supports Ubuntu 24.04
- Supports local deployment of models up to 200B parameters
- Native deployment support for Qwen3.5, GPT-OSS, MiniMax M2.7 and NVIDIA Nemotron
- Supports CUDA, cuDNN, cuBLAS, NCCL and TensorRT in the NVIDIA edge AI ecosystem
- Supports NVIDIA Container Toolkit
- Supports PyTorch, TensorFlow and MATLAB
- Supports OpenClaw, NemoClaw and Hermes agent frameworks

Model Inference Performance (T5000, 2 TB SSD)





Ordering Information

Model	CPU	GPU	RAM	Module Power	AI Performance
W638-A	12-core Arm® Neoverse®-V3AE 64-bit CPU	1,536-core NVIDIA Blackwell GPU; 64 fifth-gen Tensor Cores; MIG (6 TPCs)	64 GB	70 W	1,200 TOPS
W638-B	14-core Arm® Neoverse®-V3AE 64-bit CPU	2,560-core NVIDIA Blackwell GPU; 96 fifth-gen Tensor Cores; MIG (10 TPCs)	128 GB	130 W	2,070 TOPS

Package Contents

Accessory	Description
Power Adapter	180 W AC adapter, 100–240 V AC input, 24 V DC output

Optional Accessories

1 TB SSD	1 TB M.2 2280 M-key NVMe SSD
2 TB SSD	2 TB M.2 2280 M-key NVMe SSD
Wi-Fi & Bluetooth Module	Wi-Fi and Bluetooth module