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New Product Launch:Powered by NVIDIA AGX Thor AI Intelligent workstation BRAV-7138

Speaker: Zhou Su, Product Manager, Shenzhen Office

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02 New Product Highlights

03 Ordering Specifications

04 Industry Applications

05 Product Schedule

New Product Launch Announcement

Time	Agenda
16:00 ~ 16:05	**Opening** Sibyl LIAO, Marketing Manager, Shenzhen Office
16:05 ~ 16: 25	**Powered by NVIDIA AGX Thor AI Intelligent Workstation BRAV-7138** Zhou Su, Product Manager, Shenzhen Office
16:25~ 16:35	**Q&A**

Jetson Roadmap

BRAV-7120



BRAV-7121



BRAV-7131



BRAV-7132



BRAV-7134



BRAV-7136



Orin Nano

Orin NX

AGX Orin

AGX Thor

20~67T

70~157T

200/275T(INT8)

1200/2070T(FP4)

BRAV-7124

EVT

BRAV-7123



BRAV-7135



BRAV-7139

In Development

BRAV-7137

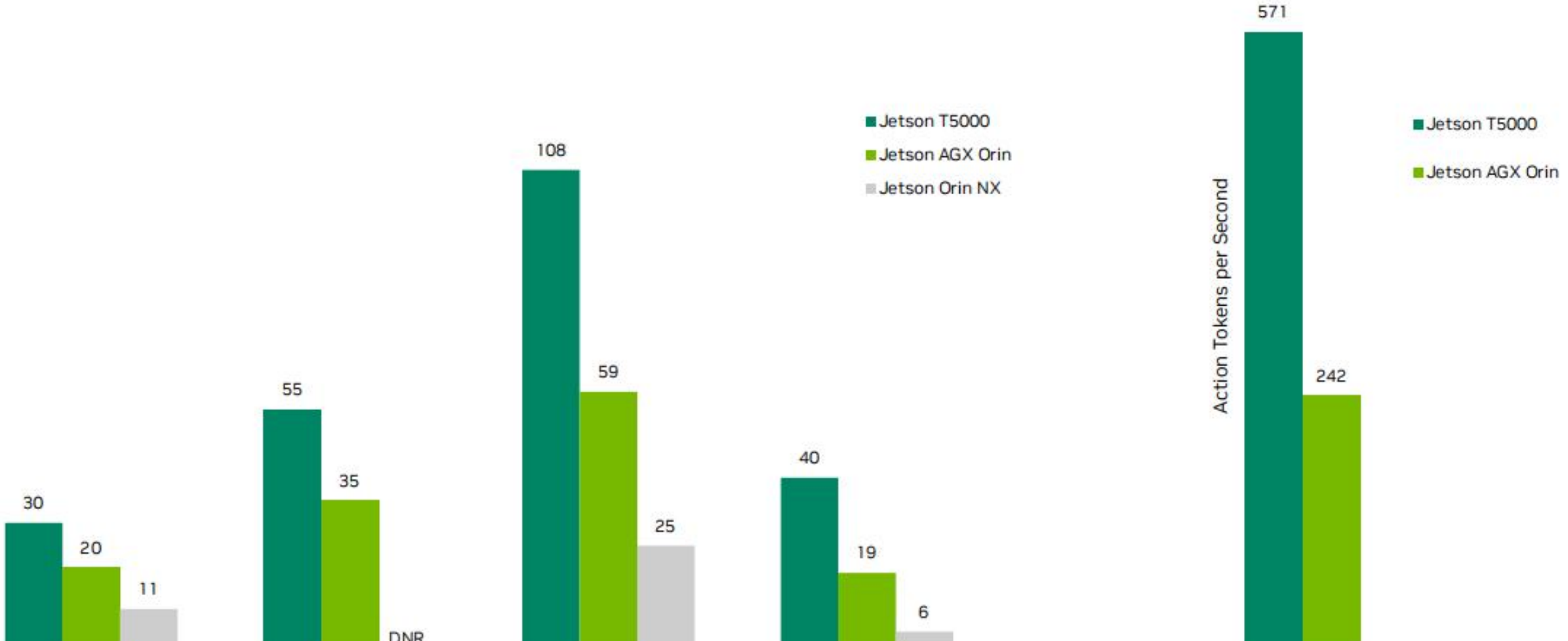
Planned

BRAV-7138



Jetson Mainstream Model Benchmark

— Unlocking New Scenarios:
LLM Migration



Thor PK AGX Orin



AI Compute

Up to **7.5X** vs AGX Orin



Energy Efficiency

Up to **3.5X** vs AGX Orin



CPU Performance

Up to **2.6X** vs AGX Orin



LLM Inference

Up to **1.5X** vs AGX Orin

FP4

128G

273G/s

MIG



ViT Inference

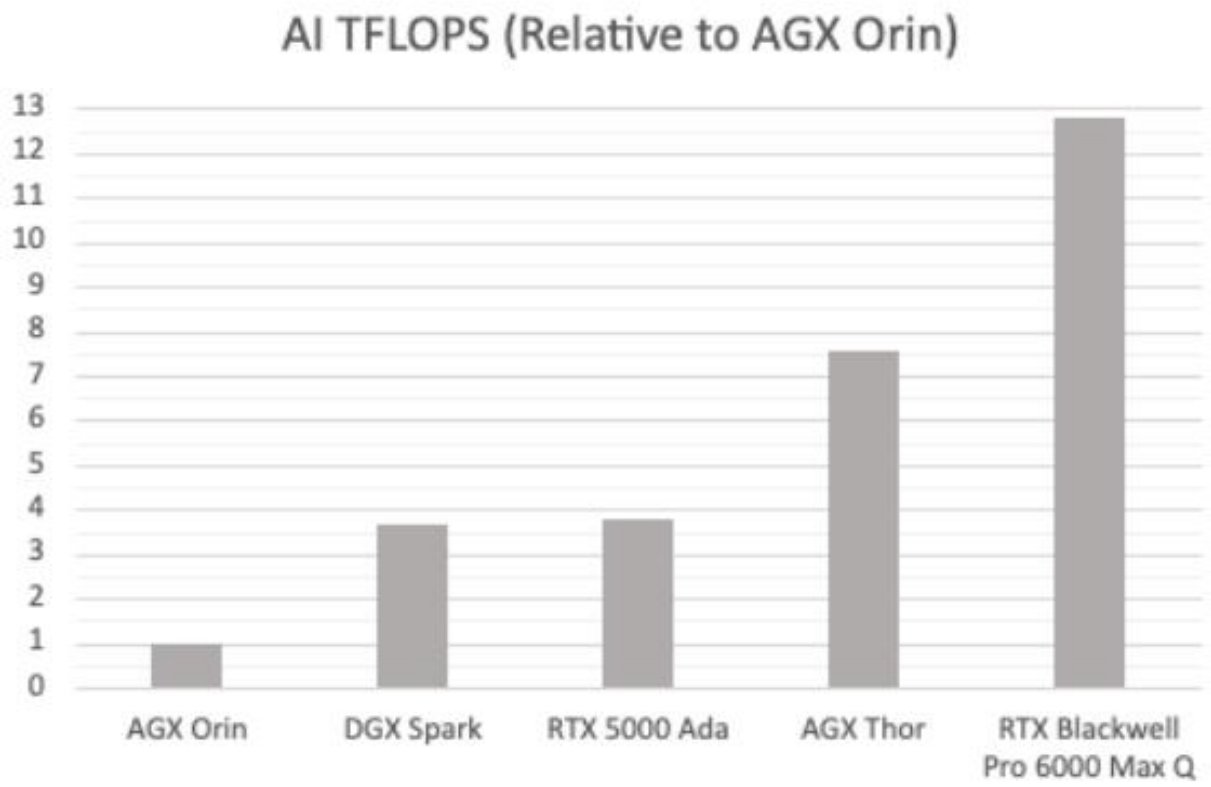
Up to **6X** vs AGX Orin



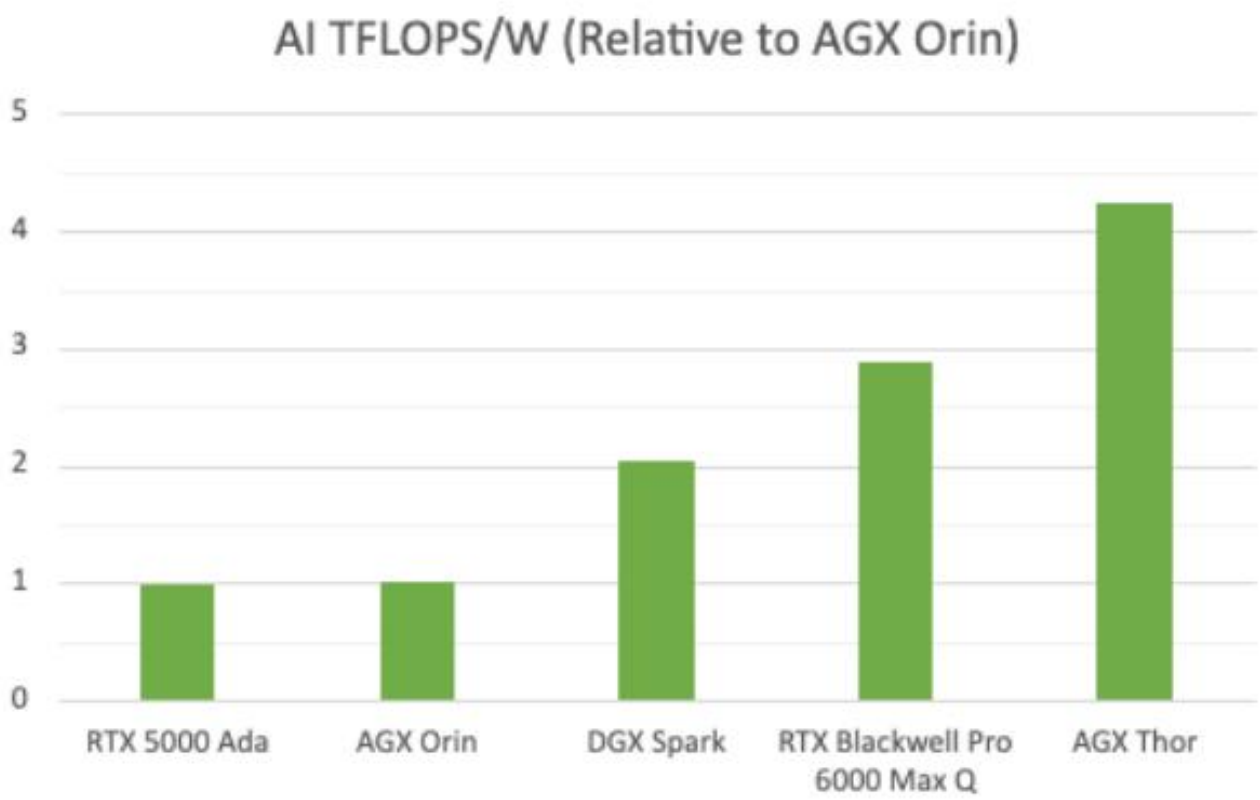
VLA Inference

Up to **2.8X** vs AGX Orin

Energy Efficiency



Workstation-class compute at edge-level power



Smaller footprint, lower power for complex models

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Key Highlights



Predictive decoding

MIG multi-instance GPU (true parallelism)

OTA updates

Video Encoding:
6x4Kp60(H.265); 12x4Kp30(H.265); 24x 1080p60 (H.265)
50x1080p30(H.265); 48x1080p30 (H.264); 6x 4Kp60 (H.264)
Video Decoding:
4x8Kp30(H.265); 10x4Kp60(H.265); 22x4Kp30(H.265); 46x 1080p60 (H.265)
92x1080p30(H.265); 82x1080p30 (H.264); 4x 4Kp60 (H.264)

1 Super AI Compute & Heterogeneous Core

1200/2070 TFLOPS (FP4); 12/14-core Arm® Neoverse®-V3AE 64-bit CPU; Blackwell GPU, 64/96 Tensor Cores

2 High-Bandwidth Large-Capacity Memory

64/128 GB 256-bit LPDDR5 @ 273 GB/s

3 Flexible High-Speed Storage Expansion with RAID Support

Supports 2× M.2 M-Key NVMe, 2× SATA 3.0 (optional), and software RAID 0/1.

4 Rich Industrial Networking & High-Speed I/O

1x 10GbE, 4x GbE, 4x USB3.2 (10G), 2x CAN FD; PCIe 5.0

5 Data Security

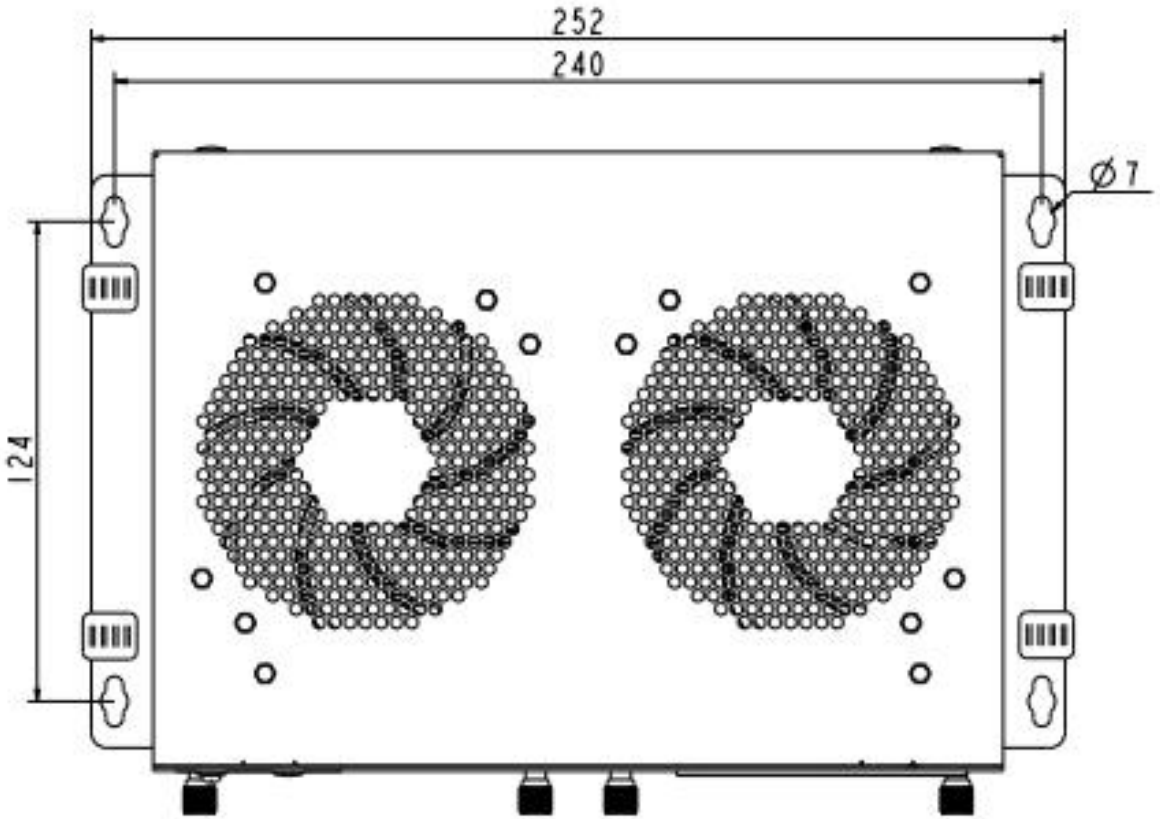
UEFI Secure Boot
TPM 2.0 Root of Trust
WireGuard-encrypted management channel
LUKS disk & encrypted log storage (at-rest encryption)

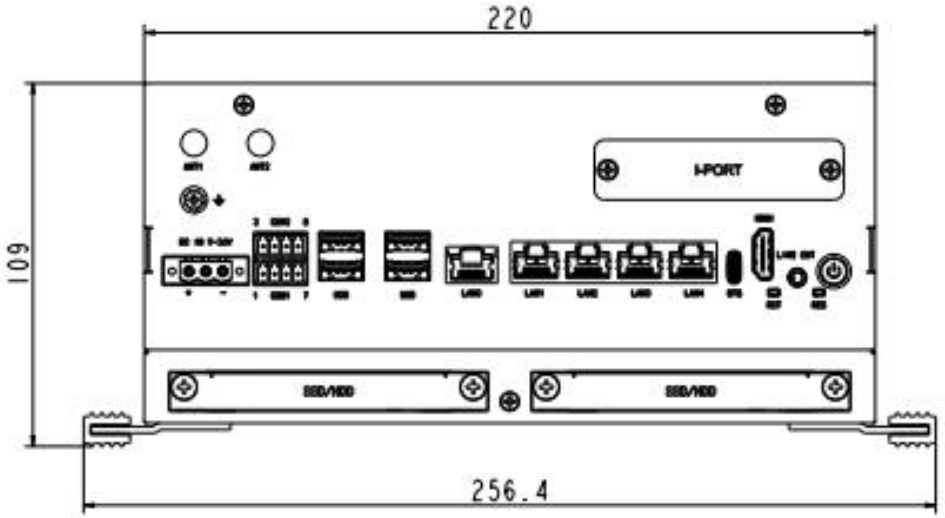
Product Dimensions

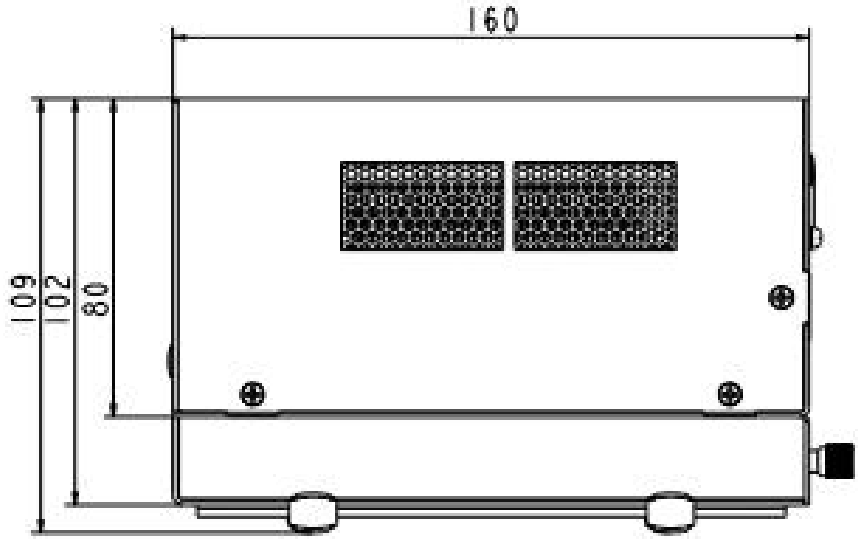
(W*H*D):
220×160×80 mm (no bracket, no dual SATA)

220×160×102 mm (no bracket, with dual SATA)

单位：mm







BRAV-7138-S Ordering Specifications



Model	Module	Description
BRAV-7138-S001	Jetson AGX Thor 64 GB (T4000)	4*GbE, 1*10GbE, 4*USB3.2, 1*OTG, 1*HDMI, 1*Line out +1*Mic, 1*RS485+1*RS232+2*UART, 2*CAN FD, 2*M.2 M-Key, 1*M.2 B-Key+SIM, 1*MiniPCIe, 1*I-port, DC-IN 9~36V, 1*DC-OUT 5v+12v
BRAV-7138-S002	Jetson AGX Thor 128 GB (T5000)	
PA-120DC19	AC/DC adapter, DC 19 V / 6.32 A, 120 W	
PA-220DC24	AC/DC adapter, DC 24 V @ 9.17 A, 220 W	

BRAV-7138-T Ordering Specifications



Model	Module	Description
BRAV-7138-T001	Jetson AGX Thor 64 GB (T4000)	4*GbE, 1*10GbE, 4*USB3.2, 1*OTG, 1*HDMI, 1*Line out +1*Mic, 1*RS485+1*RS232+2*UART, 2*CAN FD, 2*M.2 M-Key, 1*M.2 B-Key+SIM, 1*MiniPCIe, 1*I-port, DC-IN 9~36V, 1*DC-OUT 5v+12v ECB-3020: MiniPCIe-to-dual-SATA3.0 card (same P/N as dual-SATA kit; T-series)
BRAV-7138-T002	Jetson AGX Thor 128 GB (T5000)	
PA-120DC19	AC/DC adapter, DC 19 V / 6.32 A, 120 W	
PA-220DC24	AC/DC adapter, DC 24 V @ 9.17 A, 220 W	

T4000 vs. T5000 Performance

	JETSON T5000	JETSON T4000
GPU CORES	3GPC, 2560 CUDA Cores 96 Tensor Cores	2GPC, 1536 CUDA Cores 64 Tensor Cores
PEAK AI PERF	2070 Sparse FP4 TFLOPs 1035 Sparse/517 Dense FP8 TFLOPs	1200 Sparse FP4 TFLOPs 600 Sparse/300 Dense FP8 TFLOPs
CPU	14x Neoverse @ 2.6 GHz	12x Neoverse @ 2.6 GHz
DRAM SIZE	128 GB, 273 GB/s	64 GB, 273 GB/s
CODEC	2X NVDECODE 2X NVENCODE	1X NVDECODE 1X NVENCODE
INTERFACE	4X 25 GbE 4X CAN	3X 25 GbE No CAN
MODULE POWER	40W-130W	40W- 70W

JetPack 7.0

+ Jetson AGX Thor dev-kit and T5000 support
+ Kernel 6.8
+ Ubuntu 24.04
+ CUDA 13.0
+ Holoscan Sensor Bridge Support

JetPack 7.1

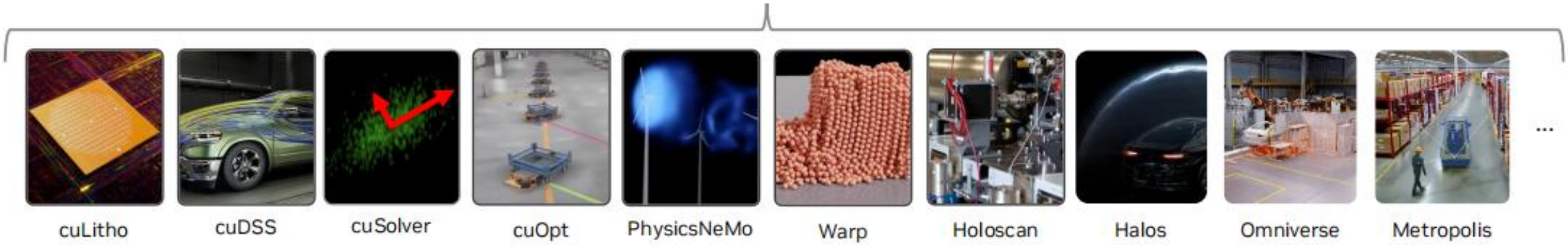
+ Jetson Thor T4000 support
+ Feature parity with JetPack 6
+ TRT Edge-LLM SDK
+ ViC SDK

T4000 vs. T5000 Performance

Model family	Model	Jetson T4000 (tokens/sec)	Jetson T5000 (tokens/sec)	T4000 vs T5000
QWEN	Qwen3-30B-A3B	218	258	0.84
QWEN	Qwen 3 32B	68	83	0.82
Nemotron	Nemotron 12B	40	61	0.66
DeepSeek	DeepSeek R1 Distill Qween 32B	64	82	0.78
Mistral	Mistral 3 14B	100	109	0.92
Kokoro TTS	Kokoro 82M	1,100	900	0.82
GR00T	GR00T N1.5	376	410	0.92

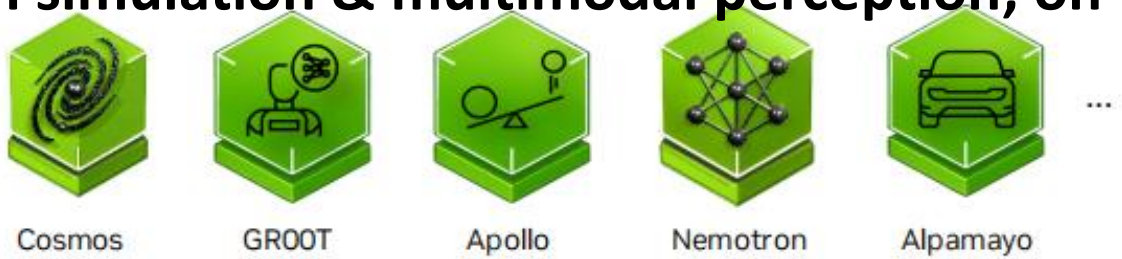
SDK Upgrade

Libraries



Multi-fold speedup in simulation & multimodal perception; on-call acceleration, no ker

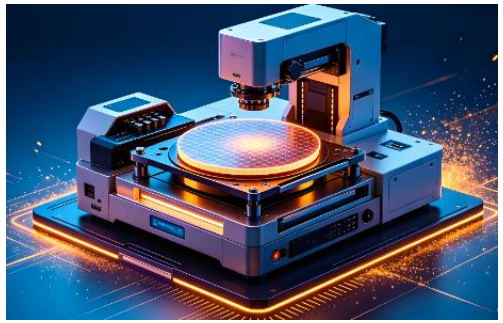
Models





Training/fine-tuning framework shortens development cycles

Market Direction



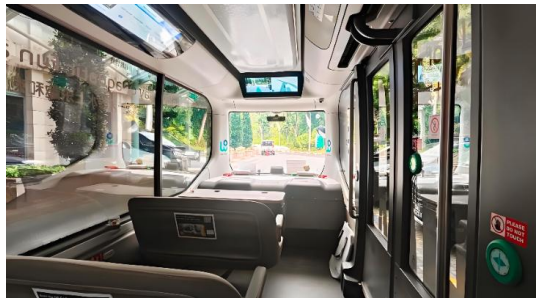
Semiconductor Wafer Inspection



Unmanned Retail



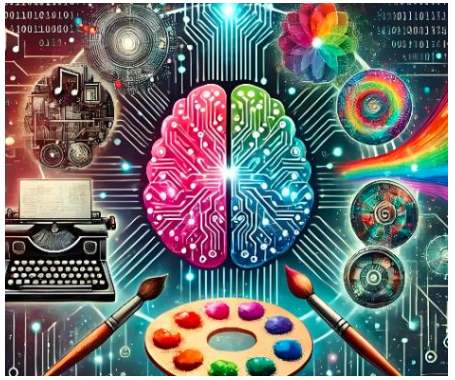
AI Education



Autonomous Driving



General Robotics



Generative AI &

Agent Lobster Machine

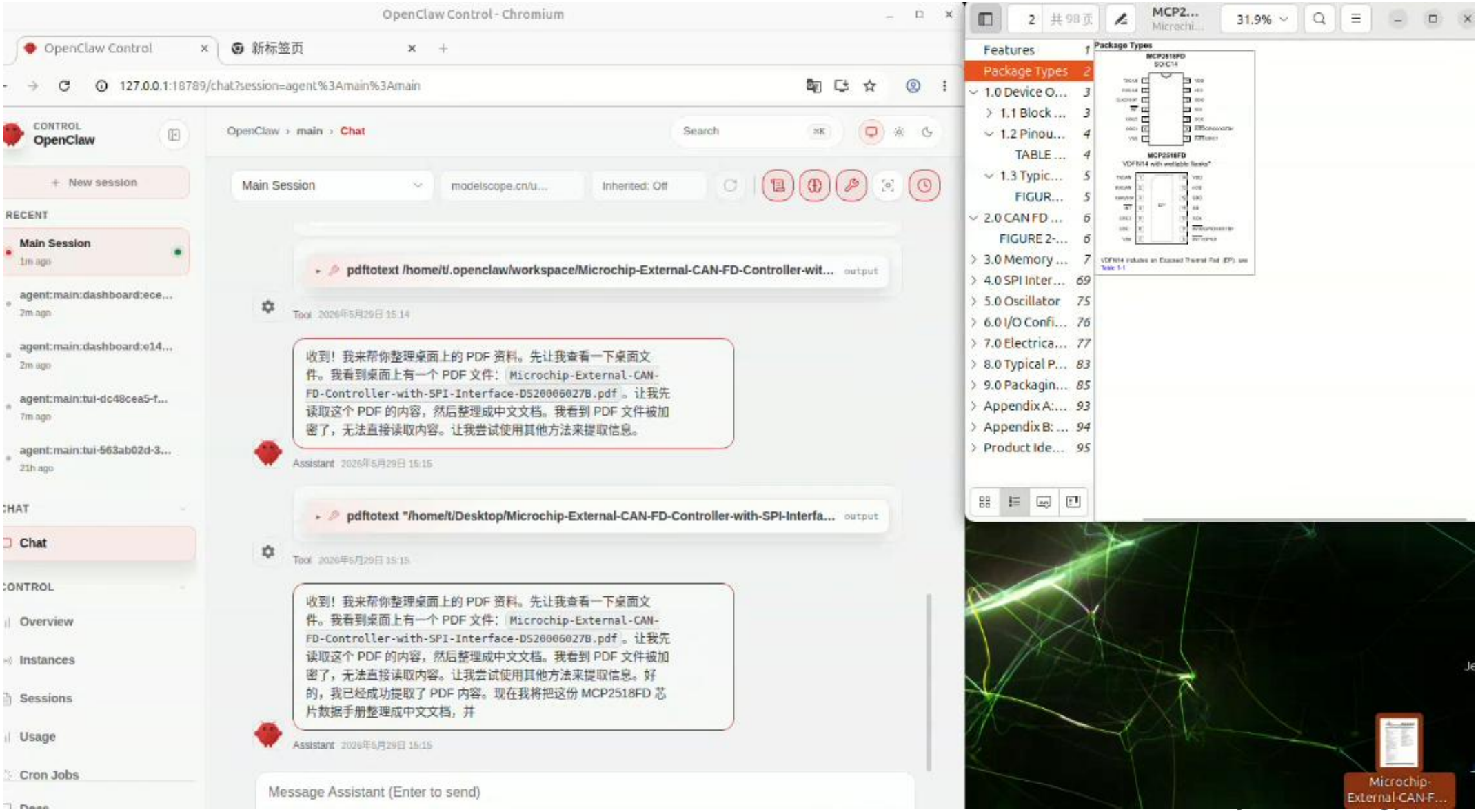
Typical Industry Applications 1



01	02	03	04	05	06
Post-Litho Inspection **Litho, develop & mask inspection tools**	Post-Etch/Deposition Inspection **Plasma etcher, PVD CVD & epitaxy tools**	Post-CMP/Laser Polish Inspection **Polisher & cleaner**	Ion Implant & Anneal **Ion implanter, rapid thermal anneal (RTA) & vertical furnace tools**	CD Metrology **CD-SEM & defect marking tools**	Wafer Defect Review
*Super-res electron microscope [1x 10GbE] *Line-scan camera & laser interferometer [2x GbE] *Contact & surface temp sensors [2x USB3.0]	*Ultra-high-res SEM [1x 10GbE] *IR camera & optical profilometer [2x GbE] *Gas sensor & film stress tester [2x USB3.0] *Chamber pressure controller [CAN]	*Laser film gauge & in-line particle counter [2x GbE] *Contact-angle meter & pad thickness monitor [2x USB3.0] *Pressure sensor [RS485] *Cleaning valve controller [CAN]	*Four-point probe & SIMS [2x GbE] *Thermocouple & vacuum gauge [2x USB3.0] *Gas flow sensor [RS485] *Ion-beam focus controller [CAN]	*AFM & CD-SEM **[1x 10GbE + 1x GbE]** *Defect classifier & barcode scanner [2x USB3.0] *Serial printer [RS232] *Defect marking controller [CAN]	*Review SEM & optical inspection [2x GbE] *Portable laser particle counter [1x USB3.0] *Wafer transfer position sensor [RS485]

Data is a core asset for yield & process improvement
— Flexible expansion: RAID 0/1, enterprise drives; data security

Typical Industry Applications 2



Product Schedule



Q1:

A1:

Q2:

A2:



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