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INDUSTRIAL PRODUCT DATASHEET

NVIDIA® Jetson AGX Thor™ Developer Kit Bundle |945-14070-0080-000

The NVIDIA® Jetson AGX Thor™ Developer Kit Bundle provides up to 2070 FP4 TFLOPS AI performance with 128 GB LPDDR5X and 4× 25GbE connectivity for real-time edge AI in fleet management, cold chain monitoring, and other...

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Overview



The NVIDIA® Jetson AGX Thor™ Developer Kit Bundle (945-14070-0080-000) delivers extreme AI performance with a Blackwell GPU featuring 2560 cores and 96 Tensor Cores, achieving up to 2070 FP4 / 1035 FP8 TFLOPS for generative AI models. Optimized for transformer and multimodal workloads, it includes 128 GB LPDDR5X memory, a 14-core Arm® Neoverse®-V3AE CPU, and high-speed connectivity such as 4× 25GbE for real-time sensor fusion in applications like outdoor asset tracking, fleet management, and cold chain monitoring.

Key Features

Note:
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- Extreme AI Performance for Robotics

Powered by Jetson T5000 module, the Blackwell GPU with 2560 cores and 96 Tensor Cores, delivering up to 2070 FP4 / 1035 FP8 TFLOPS—ideal for running a wide range of generative AI models such as LLM, VLA (like NVIDIA® Issac™ GR00T N), ViT, etc.

- Optimized for Transformer and Multimodal Workloads

Built-in Transformer engine, MIG (Multi-Instance GPU) support, and 128 GB LPDDR5X (273 GB/s) memory enable efficient training and inference at the edge.

- Real-Time Processing and Control

Features a 14-core Arm® Neoverse®-V3AE CPU for fast, deterministic performance in real-time robotic applications.

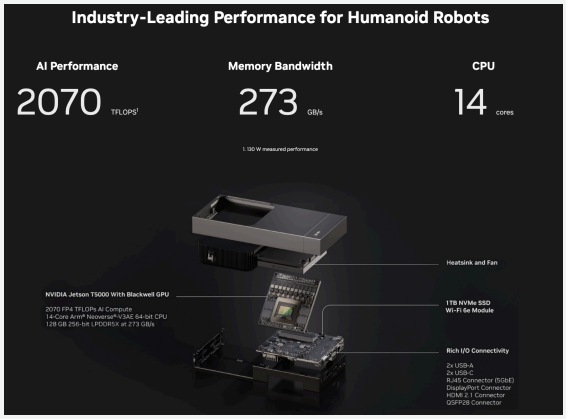
- High-Speed Sensor and Network Integration

Supports up to 4× 25GbE connections, 140W power supply, and a rich I/O set including HDMI, DP, USB 3.2/USB-C, CAN, and GbE for high-bandwidth and low-latency real-time sensor fusion.

Product Gallery







Specification

	Jetson AGX Thor Developer Kit	Jetson T5000 Module
AI Performance	2070 TFLOPS (FP4—Sparse)	
GPU	2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs	
GPU Max Frequency	1.57 GHz	
CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU 1 MB L2 cache per core 16 MB shared system L3 cache	
CPU Max Frequency	2.6 GHz	
Vision Accelerator	1 x PVA v3	
Memory	128 GB 256-bit LPDDR5X 273 GB/s	
Storage	1 TB NVMe M.2 Key M Slot	Supports NVMe through PCIe Supports SSD through USB3.2

Video Encode	6x 4Kp60 (H.265) 12x 4Kp30 (H.265) 24x 1080p60 (H.265) 50x 1080p30 (H.265)4 8x 1080p30 (H.264) 6x 4Kp60 (H.264)	
Video Decode	4x 8Kp30 (H.265) 10x 4Kp60 (H.265) 22x 4Kp30 (H.265) 46x 1080p60 (H.265) 92x 1080p30 (H.265) 82x 1080p30 (H.264) 4x 4Kp60 (H.264)	
Camera	HSB camera via QSFP slot USB camera	Up to 20 cameras via HSB Up to 6 cameras through 16x lanes MIPI CSI-2 Up to 32 cameras using Virtual Channels C-PHY 2.1 (10.25 Gbps) D-PHY 2.1 (40 Gbps)
PCIe*	M.2 Key M slot with x4 PCIe Gen5M.2 Key E slot with x1 PCIe Gen5	Up to Gen5 (x8 lanes)Root port only—C1 (x1) and C3 (x2)Root Point or Endpoint—C2 (x1), C4 (x8), and C5 (x4)
USB*	2x USB-A (3.2 Gen2)2x USB-C (3.1)	xHCI host controller with integrated PHY (up to) 3x USB 3.2 4x USB 2.0
Networking*	1x 5GBe RJ45 connector 1x QSFP28 (4x 25 GbE)	4x 25 GbE
Display	1x HDMI 2.0b 1x DisplayPort 1.4a	4x shared HDMI2.1 VESA DisplayPort 1.4a—HBR2, MST
Other I/O	QSFP connector M.2 Key E expansion slot (WLAN/BT, x1 PCIe, USB2.0, UART, I2C, I2S) M.2 Key M connector (NVMe for storage) PCIe x4 lane, I2C, PCIe x2 lane 2x 13-pin CAN header 2x 6-pin automation header LED JTAG connector (2x 5-pin header) 1x fan connector —12V, PWM, and Tach Audio panel header (2x 5-pin) Microfit power jack RTC backup battery connector 2-pin	5x I2S/2x audio hub (AHUB), 2x DMIS, 4x UART, 4x CAN, 3x SPI, 13x I2C, 6x PWM outputs
Power	40W – 130W	
Mechanical	243.19 mm x 112.40 mm x 56.88 mm Thermal Transfer Plate (TTP) and optional fan or heat sink	100 mm x 87 mm 699-pin B2B connector Integrated Thermal Transfer Plate (TTP) with heatpipe

Applications

- **Outdoor Asset Tracking**
- **Fleet Management**
- **Pet and Livestock Tracking**
- **Bike Sharing**
- **Personnel Tracking**
- **Cold Chain Monitoring**

Part List

NVIDIA® Jetson T5000 module with heat sink and reference carrier board	x1
DC power 140W	x1
WiFi Module	x1
1 TB NVMe	x1
Quick Start Guide	x1

Resource Links

- https://www.seeedstudio.com/NVIDIAr-Jetson-AGX-Thortm-Developer-Kit-Bundle.html
- Datasheet

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