

NVIDIA® Jetson Thor™ Platform

Coeus - 4002T

- ◆ Features the NVIDIA® Jetson Thor™ module, delivering 2070 FP4 TFLOPS of computing power, providing desktop-class AI inference capabilities for edge devices.
- ◆ Integrates NVIDIA's full-stack AI and robotics development ecosystem, significantly lowering the barrier from simulation to edge deployment.
- ◆ Optimized for two frontier applications: **Humanoid Robots and Henerative AI**.
- ◆ Optional 4x25GbE high-speed optical ports, designed for real-time processing fused data streams from multi-sensors.

 Humanoid Robot

 Spatial Intelligence

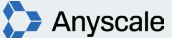
 AI-Physics Simulation

 Generative AI

Jetson Thor Supports All Modern Gen AI Frameworks and Models

AI Frameworks

 Hugging Face

 Anyscale

 LLaMA

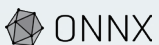
 ByteDance

 deepseek

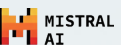
 Gemini

 MACHINE LEARNING
COMPILATION

 NVIDIA
TensorRT-LLM

 ONNX

 Meta

 MISTRAL
AI

 OpenAI

 PyTorch

 SGL

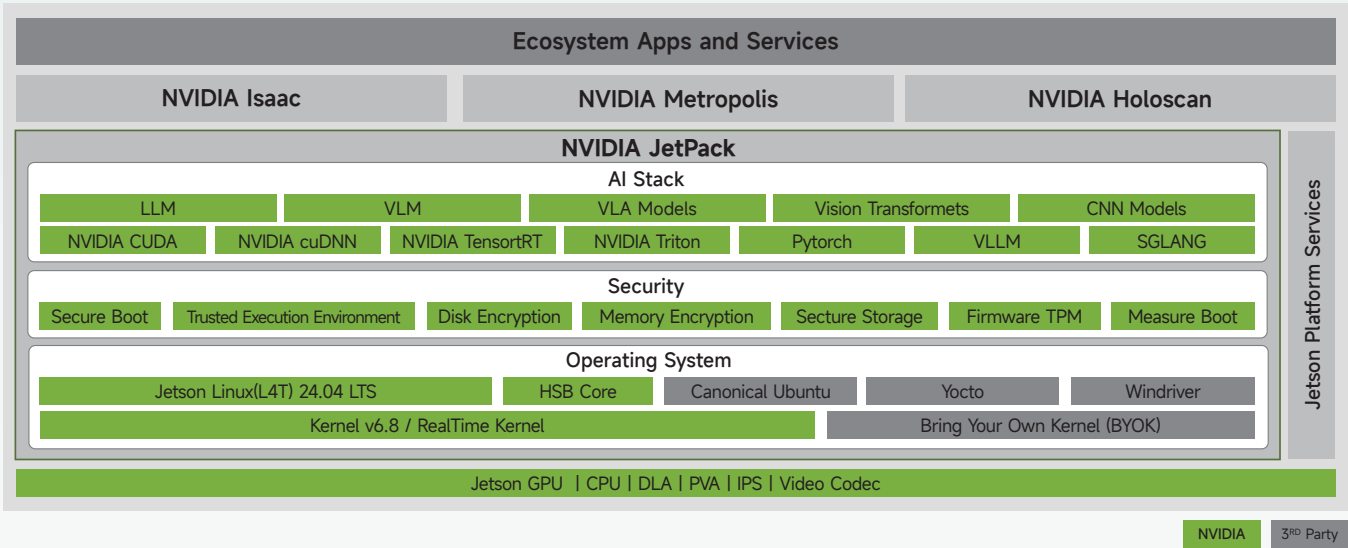
 TensorRT

 LLM

Physical Intelligence (π)

 Qwen

Jetson Software Stack



Key Product Specifications

							
Model	4002T	4000G8	3901G8	3901T	3811S	3724P	3721T(S)
Module	Jetson Thor T5000	Jetson Thor T4000	Jetson AGX Orin 64 / 32 GB	Jetson AGX Orin 64 / 32 GB	Jetson Orin NX 16 / 8 GB	Jetson Orin Nano 8 / 4 GB	Jetson Orin Nano 8 / 4 GB (Super)
AI Performance	2070 TFLOPS	1200 TFLOPS	275 / 200 TOPS	275 / 200 TOPS	157 / 117 TOPS	40 / 20 TOPS	40 / 20 TOPS (67 / 34 TOPS)
Memory	128 GB 256-bit	64GB 256-bit	64GB 256-bit 32GB 256-bit	64GB 256-bit 32GB 256-bit	16GB 128-bit 8GB 128-bit	8GB 128-bit 4GB 64-bit	8GB 128-bit 4GB 64-bit
eMMC	-	-	64 GB	64 GB	-	-	-
LAN	5 (2.5G)	3 (2.5G)	3 (2.5G)	3 (2.5G)	2 (2.5G)	2 + 4 (POE)	2
USB	3	4	4	4	2	4	4
COM	-	1	1	1	-	2	2
CAN	-	-	2	2	-	1	1
HDMI	1	1	1	1	1	1	1
M.2 M-key	1 × M.2 M-Key 2280	1 × M.2 M-Key 2280	1 × M.2 M-Key 2280	1 × M.2 M-Key 2280	1 × M.2 M-Key 2280	1 × M.2 M-Key 2280	1 × M.2 M-Key 2280
M.2 B-key	1 × M.2 B-Key 3042/52	1 × M.2 B-Key 3042/52	1 × M.2 B-Key 3042/52	1 × M.2 B-Key 3042/52	1 × M.2 B-Key 3042/52	1 × M.2 B-Key 3042/52	1 × M.2 B-Key 3042/52
M.2 E-key	1 × M.2 E-Key 2230	1 × M.2 E-Key 2230	1 × M.2 E-Key 2230	1 × M.2 E-Key 2230	1 × M.2 E-Key 2230	1 × M.2 E-Key 2230	1 × M.2 E-Key 2230
miniPCle	-	-	-	-	-	1	1
GPIO	-	8DI & 8DO	8DI & 8DO	8DI & 8DO	-	4DI & 4DO	4DI & 4DO
Power Input	DC 24-30V	DC 12-30V	DC 12-30V	DC 12-30V	DC 9-30V	DC 48-54V	DC 9-30V
Operating Temperature	-10 ~ 50 °C	-10 ~ 50 °C	-10 ~ 55 °C	-10 ~ 55 °C	-10 ~ 55 °C	-10 ~ 55 °C	-10 ~ 55 °C
Other Interfaces	1×Q5FP28 (Expandable to 4×25G Opt. Modules) 1×SIM, 1×OTG 1×DB9 (Opt. COM/CAN/GPIO Exp.)	1 × SIM 1 × OTG	1 × SIM 1 × Audio 1 × OTG	1 × SIM 1 × Audio 1 × OTG	1×SIM, 1×OTG 1×DB9 (Opt. COM/CAN/GPIO Exp.)	1 × SIM 1 × Audio 1 × OTG	1 × SIM 1 × Audio 1 × OTG
Operating System	Ubuntu 24.04	Ubuntu 24.04	Ubuntu 22.04	Ubuntu 22.04	Ubuntu 22.04	Ubuntu 22.04	Ubuntu 22.04

Headquarter

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Website

Edge AI Computing Platforms

Leveraging over three decades of industrial computing R&D expertise, NEXCOM Group has developed edge AI computers and compatible carrierboard based on the NVIDIA® Jetson™ platform, providing AI capabilities for edge AI devices and embedded hardware across various industries to enhance real-time decision-making capabilities and operational efficiency.

By integrating edge AI technologies, users can rapidly deploy AI-driven devices such as Autonomous Mobile Robots (AMRs) and Intelligent Video Analytics (IVA) systems in sectors like industrial automation, transportation, smart cities, healthcare, environmental protection, agriculture and retail. These innovations drive sustainable development and foster new productive forces through optimized workflows.



NVIDIA NPN
Embedded Partner

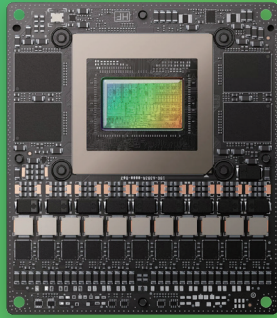


Coeus Series Edge AI Computers

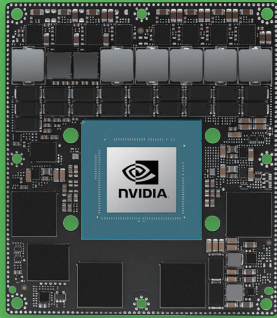
The Coeus series edge AI computers utilize the NVIDIA® Jetson™ platform to deliver services in edge computing ecosystems. Covering modules from the high-performance Jetson Thor™ to the entry-level Jetson Nano, this series addresses diverse computational power and budget requirements, fulfilling application needs across user groups and scenarios.

Featuring fanless design, industrial-grade wide-temperature and vibration-resistant construction, the products support multiple AI frameworks and offer rich I/O interfaces. Communication with computer Terminal via different forms, Significantly minimizes communication delays, and enhances data privacy. Based on general-purpose algorithms and generative AI, these systems enable capabilities such as semantic comprehension, human-machine interaction, and autonomous decision-making, empowering intelligent edge deployments in complex environments.

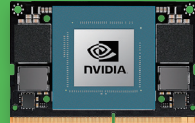
Support Module



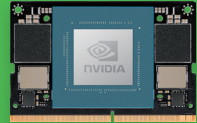
Jetson Thor T5000
2070 TFLOPS
40 ~ 130 W



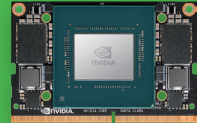
Jetson AGX Orin
275 / 200 TOPS
15 ~ 60 W



Jetson Orin NX
100 / 70 TOPS
10 ~ 25 W



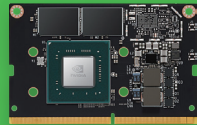
Jetson Orin Nano
40 / 20 TOPS
7 ~ 15 W



Jetson Xavier NX
21 TOPS
10 ~ 20 W



Jetson TX2 NX
1.33 TFLOPS
7.5 ~ 15 W



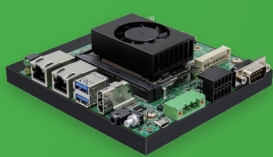
Jetson Nano
472 GFLOPS
5 ~ 10 W

Edge AI Ecosystem Solutions

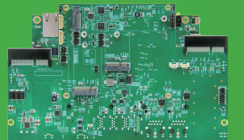
We possess embedded hardware R&D and manufacturing capabilities. Our self-developed modules feature compact designs for easy integration. The edge computing carrier board we developed allows users to directly adopt a module-board combination, customize product architectures, and expand application scenarios.

We also provide developer tools to assist engineers in rapid prototyping and functional validation.

Developer Kit & BaseBoard



NVIDIA Developer Kit
- Supports Jetson Orin NX / Nano
- 5G, 4G, Wi-Fi
- 4 × USB 3.0, 2 × LAN



NBC-3003
- Supports Jetson Thor
- 5G, 4G, Wi-Fi
- 3 × USB3.0, 3 × LAN
- 1 × COM, 2 × CAN
- 6 × Antennas

Customer Success Stories



MX 6000 Series
- Supports Jetson Orin Nano
- Connects AI, OT, and IT.
- Providing customers with edge-layer automation processing capabilities and data acquisition, analysis, storage, and other capabilities.



EDGE 100
- Supports Jetson AGX Orin
- Supports multiple AI frameworks including TensorFlow, Caffe
- Compatible with various AI tools such as TensorRT and DeepStream SDK
- NexRTOS + IGH patch is option
- Supports 5G, 4G, and Wi-Fi

Platform Advantages

The Hardware Engine Powering the NVIDIA AI Ecosystem

2070 TFLOPS
High-Performance

NVIDIA Jetson platform modules, delivering industry-leading computing power.

Versatile Interfaces
Meets diverse needs

HDMI M.2
USB LAN COM
CAN QSPF28 Type-C

4×25 GbE Network Aggregation

Ingest high-speed sensor data for real-time performance with optional 4×25 GbE networking

Remote Management
Centralized Control for Distributed Devices

Reserved 6 Antennas

Reserved Antenna Slots, Enable Simultaneous 5G/4G & Wi-Fi Real-Time Communication

POE-Powered Flexible Deployment

No pre-installed power cables required; compatible with new and existing equipment for simplified management.

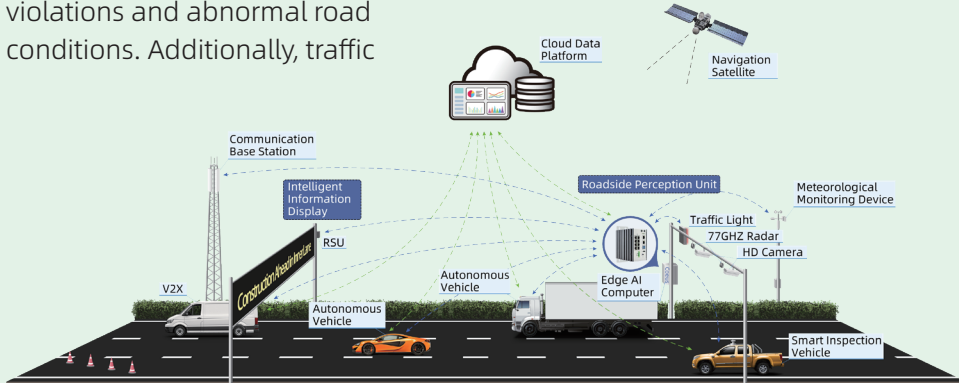
Industrial-Grade Design

Optional Fanless Cooling & Wide-Temperature Models for Harsh Environments

Smart Transportation Applications

Traffic Signal & Law Enforcement Device Management & Control

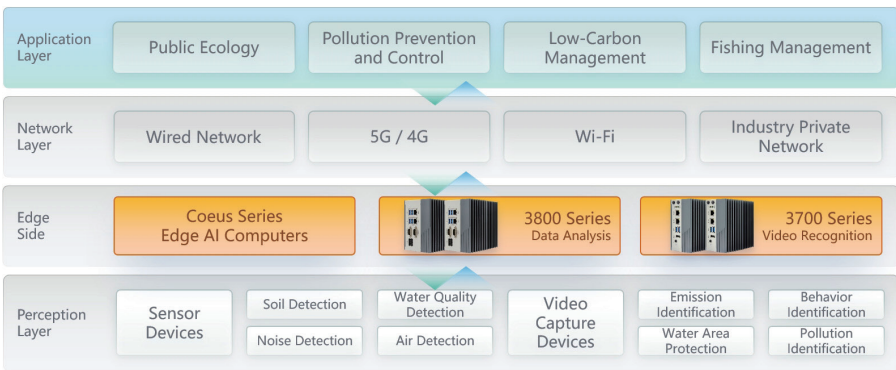
Aiming to enhance the intelligentization of transportation infrastructure involves deploying smart devices, such as cameras and sensors, along roadways to achieve effective road management. These systems enable real-time identification of traffic violations and abnormal road conditions. Additionally, traffic flow data is analyzed to infer road condition trends and intelligently adjust traffic signals. Leveraging historical data, predictions, management, and planning of traffic conditions become faster and more accurate.



Smart Environment Protection

River Basin Fisheries & Ecological Management

Addressing staff shortages in grassroots fishing management departments by resolving the issues of "difficulty in detection, challenges in evidence collection, and slow response times." The system automatically records video evidence of illegal fishing activities, concealment of catches, evidence disposal, and escape attempts. It achieves 24/7 monitoring of key river sections in the basin and coastal areas within 1-3 km.



Smart Manufacturing Applications

Edge AI-Powered Smart Industrial Robots

Supported by NVIDIA Isaac and generative AI, this approach enhances the efficiency and flexibility of robot training processes. Potentiating industrial robots to perform autonomous decision-making based on acquired information to accomplish set objectives.

In industrial applications, such technologies are driving innovation in automated production, making manufacturing lines more intelligent and adaptable, thereby improving production efficiency and product quality.

ROS2
NODE
DDS

Isaac ROS
Object Detection

Isaac GEM

Development using cloud, workstation, or server
NVIDIA Omniverse Cloud
NVIDIA Isaac Sim

Physical Simulator
Environment Model
Robot Model

Coeus-4001T
Jetson Thor
2070 TFLOPS
Hardware Acceleration

Robotic Device