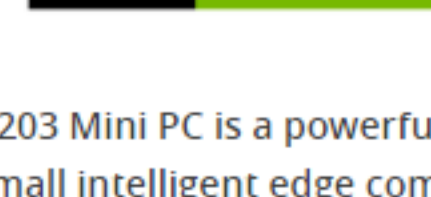




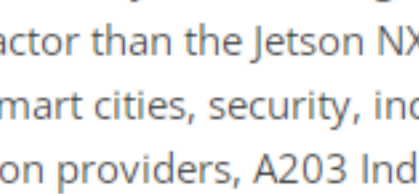
A203 Mini PC with Jetson Xavier NX 8GB module, 128GB SSD, 2xUSB 3, RS232, WiFi/BLE, Aluminum case, Pre-installed JetPack 5.0.2

SKU 114110147



A203 Mini PC is a powerful and extremely small intelligent edge computer to bring modern AI to the edge, the smaller form factor than the Jetson NX Developer Kit delivers the same AI power for up to 21 TOPs. For smart cities, security, industrial automation, smart factories, and other edge AI solution providers, A203 Industrial Mini PC combines exceptional AI performance, and sufficient storage with a rich set of IOs— HDMI, 2x USB3s, RS232, I2Cs, and GPIOs, supports operating range from -20°C to 80°C for AI embedded industrial and functional safety applications in a power-efficient, small form factor.

PRODUCT DETAILS



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Note
Free FedEx shipping is available before Nov 4th! Pre-Order Yours NOW!

Features

- Extremely small form factor full system:** 100mm x 44mm x 59mm edge AI box packs Jetson Xavier NX 8GB production module, rich-interfaces carrier board, 128 GB NVME SSD, WIFI module, heatsink, fan, and enclosure case.
- Advanced embedded AI system:** 384 NVIDIA CUDA® Cores, 48 Tensor Cores, 6 Carmel ARM CPUs, and two NVIDIA Deep Learning Accelerators (NVDLA) engines.
- Built with rich sets I/Os A203 carrier board:** 1 x RJ45 Gigabit Ethernet, 1x HDMI, 1x Audio Jack, 2x USB 3, 1x Micro USB, CAN, microSD Card Slot, reset button.
- Energy efficient:** +9V to +19V DC Input @ 3A, Jetson Xavier NX module delivers server-class performance—up to 14 TOPS at 10W or 21 TOPS at 15W or 20W.
- Pre-installed NVIDIA JetPack 5.0.2:** support the entire [Jetson software stack](#) and various [developer tools](#) for building fast and robust AI application provided by Seed Edge AI partners, helps develop innovative AI solution for manufacturing, logistics, retail, service, agriculture, smart city, healthcare, and life sciences, etc
- Certifications:** FCC, CE, RoHS

Jetson Xavier NX delivers up to 21 TOPS, making it ideal for high-performance computing and AI in embedded and edge systems. Combined with over 59.7GB/s of memory bandwidth, video encoded and decoded, these features make Jetson Xavier NX the platform of choice to run multiple modern neural networks in parallel and process high-resolution data from multiple sensors simultaneously.

Seed is a reseller of NVIDIA embedded systems and a preferred partner of the NVIDIA Jetson ecosystem for edge AI. Explore more carrier boards, full system devices, customization services, use cases, and developer tools at Seed Jetson Ecosystem!

Ready for development

A203 Mini PC is pre-installed with [Jetpack 5.0.2](#), ideal for developing AI systems deployed at smart factories, automated optical inspection, and other AIoT embedded systems with entire [Jetson software stack](#) and various [developer tools](#) for building fast and robust AI applications provided by Seed Edge AI partners.

Edge Deployment made easy

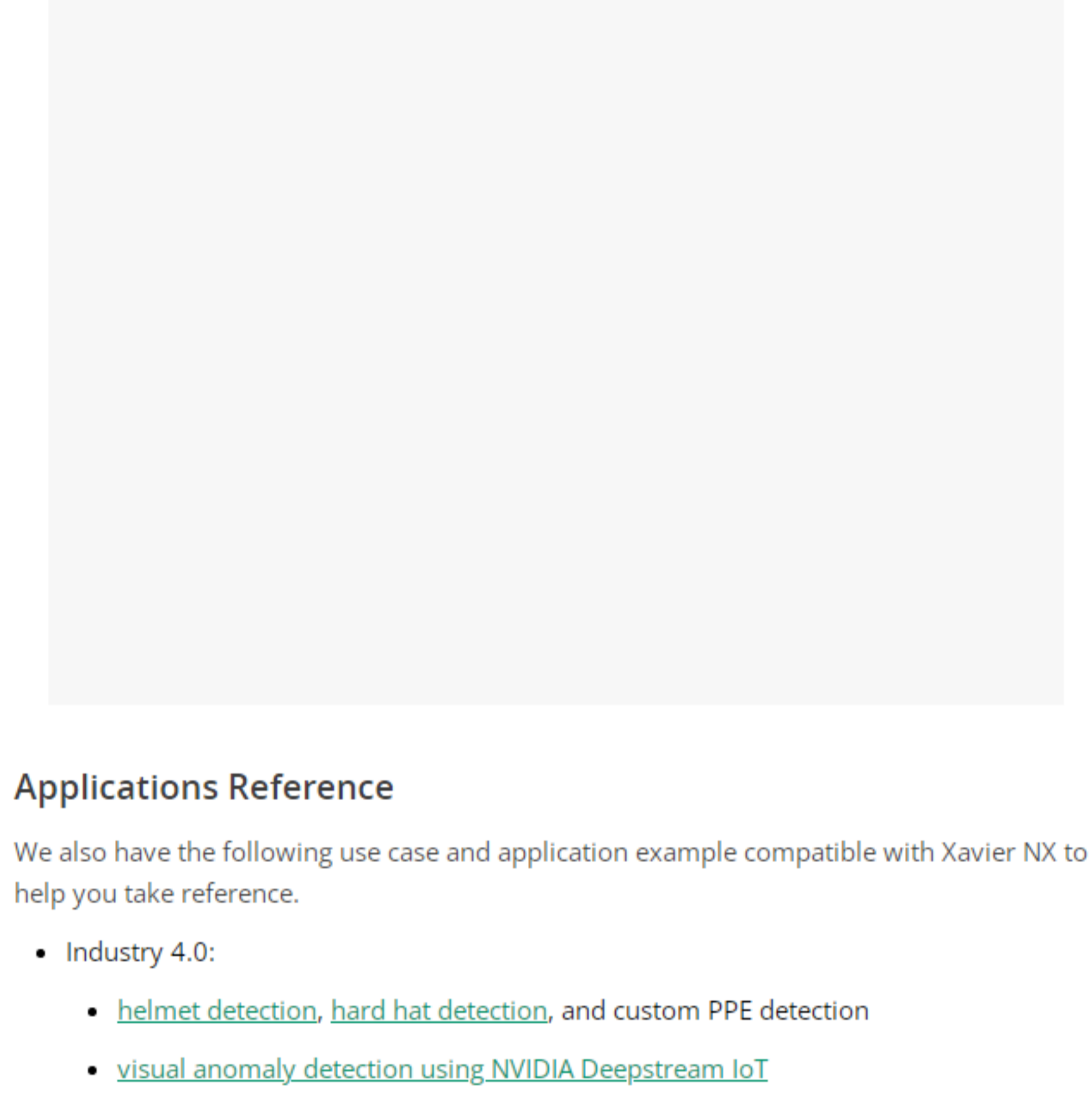
A203 Mini PC built with Jetson Xavier NX module supports [alwaysAI Accelerated Edge Deployment](#). You can train a brand new custom model just in hours, or you can even use choose one of 130+ pre-trained models from the always dashboard, deploy it to A203 Mini PC, and build a computer vision application within minutes! alwaysAI removes barriers to machine learning expertise requirements and makes creating computer vision apps easy, fast and effective.

With the deployment engine, you can OTA containerization and device monitoring in production mode, Run the application in offline mode and Auto-start the application on boot.

With an extensive library of [Python APIs](#), you can also customize any AI application, and also push real-time analytics to platforms such as Data Lakes and BI tools for further data visualization.

Perfect for intelligent video analytics and industrial automation use

With the help of the NVIDIA® TensorRT library and Deepstream framework, you can get the maximum of the NVIDIA® Jetson™ processors. With all the optimizations applied, it is not a surprise to achieve desktop GPU-level framerates with deep learning algorithms in embedded form factors. Following our [tutorial](#), you can efficiently run a custom YOLOv5 object detection model with 60 FPS with an image size of 640x640 at INT8 quantization.



Applications Reference

We also have the following use case and application example compatible with Xavier NX to help you take reference.

- Industry 4.0:
 - [helmet detection](#), [hard hat detection](#), and custom PPE detection
 - [visual anomaly detection using NVIDIA Deepstream IoT](#)
- Robotics:
 - [under-ice sensing ROV](#)
 - [warehouse towing robot](#)
- Retail:
 - sentiment analysis([webinar](#): learn your customer with AI by Zenus smart camera),
 - [retail store items detection](#)
- [Traffic management](#)
 - license plate detection
 - car detection
 - pedestrian detection

Compare A203 Mini PC and Jetson Xavier NX Dev Kit Specs

| | A203 Mini PC | NVIDIA Jetson Xavier NX Developer Kit |
|----------------------|--|---|
| Module | NVIDIA JETSON XAVIER NX | |
| Performance | 21 TOPs(INT8) | |
| CPU | 6-core 64-bit CPU, NVIDIA Carmel ARMv8.2 | |
| GPU | 384-core NVIDIA Volta GPU | |
| Memory | 8 GB 128-bit LPDDR4x 59.7GB/s | |
| Storage | 128GB M.2 NVME SSD, MicroSD slot | MicroSD card slot |
| Display | 1*HDMI Type A | 1*HDMI Type A; 1*DP |
| Video decoder | 2x 4K @ 60 4x 4K @ 30 12x 1080p @ 60 32x 1080p @ 30 (H.265) 2x 4K @ 30 6x 1080p @ 60 16x 1080p @ 30 (H.264) | 2x 8K30 6x 4K60 12x 4K30 22x 1080p60 44x 1080p30 (H.265) 2x 4K60 6x 4K30 10x 1080p60 22x 1080p30 (H.264) |
| Gigabit Ethernet | 1*RJ45 Gigabit Ethernet Connector (10/100/1000) | |
| OS | JetPack 5.0.2 | without OS installed |
| USB | 4*USB3.0(USB 2.0 Integrated), 1*Micro USB | 4 * USB 3.1 Type A Connector; 1 * Micro-USB port for Device mode; |
| CSI Camera | 1 * CSI | 2*CSI |
| M.2 KEY E | 1*M.2 Key E(WIFI/BT included) | |
| Industrial Interface | 1x RS232, 1xCAN | - |
| M.2 KEY M | 1x M.2 KEY M (include NVMe SSD) | 1x M.2 KEY M |
| RTC | 1*RTC Socket | - |
| Multifunctional port | 1* 40-Pin header | |
| Others | 1x I2S(3.3V Level);2x I2C Link (+3.3V I/O);5x GPIO;1x UART;2x SPI | GPIO, I2C, I2S, SPI, UART |
| Power | 9V to 19V DC Input @ 3A | DC Jack 19V 4.74A (MAX 90W) |
| Mechanical | 100mm x 50mm x 59mm | 130mm x120mm x 50mm |

Part List

| | |
|--------------------------------------|-----|
| A203 Mini PC | x1 |
| Antenna | x2 |
| Power adapter (Without Power cord) | x 1 |

ECCN/HTS

| | |
|----------|------------|
| HSCODE | 8471419000 |
| USHSCODE | 8471490000 |
| UPC | |
| EUHSCODE | 8471707000 |
| COO | CHINA |

LEARN AND DOCUMENTS

Documentations

- [\[Attachment\] A203 Mini PC_Specification.pdf](#)
- [\[Attachment\] A203 Mini PC Datasheet.pdf](#)
- [\[Attachment\] A203_Mini_PC_3D.stp](#)

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FAQ

10+:

\$769.00

J1020 v2(Nano 4GB+M.2 Key M+4*USB3)

J1010(Nano 4GB+M.2 Key E+1*USB3+2*US...)

J2021(NX 8GB) J2022(NX16GB)

A205E(NX8GB+4*USB 3+RS232+ RS485+2*...)

A203(NX8GB+2*USB 3+RS232)

1 on backorder. Available on Nov 14, 2022

BACK ORDER

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