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<b>Product Name</b>	GAOTek Embedded AI Computer
<b>Product SKU</b>	GAOTek-ECP-109
<b>Product URL</b>	<a href="https://gaotek.com/product/gaotek-embedded-ai-computer/">https://gaotek.com/product/gaotek-embedded-ai-computer/</a>



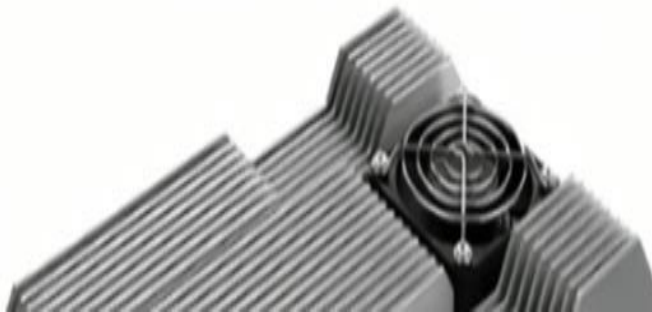
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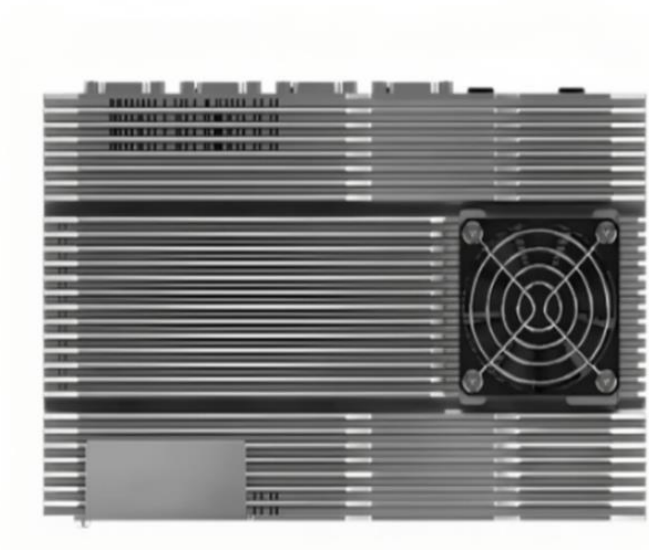
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## 1. INTRODUCTION

### 1.1 NVIDIA JETSON NANO 4GB EMBEDDED COMPUTER

GAOTek Embedded AI Computer – 32 TOPS AI Performance is equipped with NVIDIA Jetson Nano core module, which contains 128 CUDA cores. Small size, flexible installation, operating power consumption as low as within 10W. Applicable to all kinds of movable equipment, such as drones, smart medical diagnostic terminal equipment, educational robots, etc. Its high-efficiency passive heat dissipation, seismic and lightning protection, and other industrial standard designs, enable Embedded AI computer to adapt harsh environments such as wide temperature, escorting the safety and stability of the overall solution.





- High-efficiency direct-touch passive cooling design -25°C-65°C Operating temperature
- Protection grade IP50, Industrial grade lightning and anti-static
- Linux Ubuntu 18.04 with BSP NVIDIA open eco-system and rich SDK.

### 1.1.1 Product Specifications

<b>Processor</b>	NVIDIA Jetson Nano
<b>AI Performance</b>	472 GFLOPS
<b>CPU</b>	Quad-Core ARM Cortex-A57 MPCore
<b>GPU</b>	NVIDIA Maxwell GPU with 128 CUDA Cores
<b>Memory</b>	4GB 64-Bit LPDDR4
<b>Storage</b>	16GB eMMC 5.1



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Video Encode	1x4K @ 30 (HEVC)
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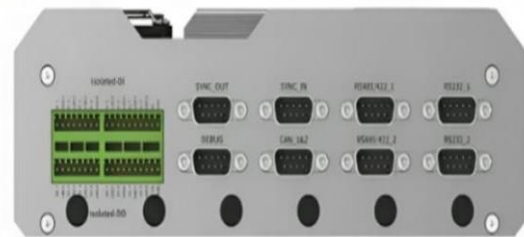
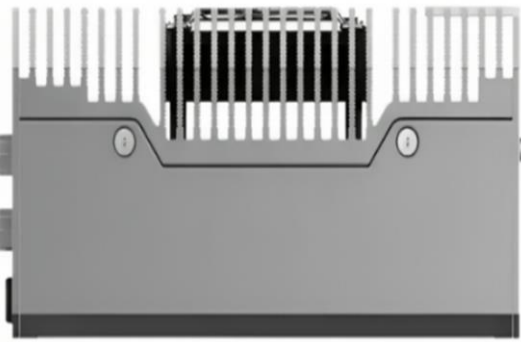
Video Decode	2x1080p @ 60 (HEVC)		4x1080p @ 30 (HEVC)	
	1x4K @ 60 (HEVC)		2x4K @ 30 (HEVC)	
	4x1080p @ 60 (HEVC)		8x1080p @ 30 (HEVC)	
I/O Configuration Function Key Dimensions (WxHxD)	1*Gigabit Ethernet	1*Micro HDMI	1*Micro-SD slot	
	OTG(Type-C)	1*USB3.0 (Type-C)	1*M.2 E Key WIFI	
	1*Power Button		1*Recovery Button	
	122mm x65.5mm x43mm (I/O ports and mounting holes excluded)			
Environment	Operating Temperature	-25°C - (50°C -65°C Frequency Reduction Operation)		
	Storage Temperature	-40°C - 80°C		
	Humidity	5-90% @ 40°C, non-condensing		
Protection	IP50			
Operation Vibration	3 Grms 5-500Hz			
Certificates	CCC/ ROHS/ SRRC			

### 1.1.2 Features

- **GPU** - Equipped with a 128-core NVIDIA Maxwell GPU architecture, offering high-performance computing power for AI inference tasks.
- **CPU** - Features a quad-core ARM Cortex-A57 CPU, providing general-purpose processing power alongside GPU acceleration.
- **Memory** - Comes with 4GB LPDDR4 RAM, allowing for efficient multitasking and handling of large datasets.
- **AI Framework Supported** - Supports popular AI frameworks such as TensorFlow, PyTorch, Caffe, and MXNet, facilitating the development and deployment of AI models.

## 2. EVO Xavier II

EVO Xavier II(Mitsubishi Lancer Evolution X) is an embedded edge computing device designed for industrial scenarios. Provides up to 32Tops of computing power. The equipment adopts high efficiency active and passive heat dissipation design, which can operate stably in harsh industrial environment. The fastening embedded design provides high vibration resistance. Rich I/O interfaces meet the access requirements of various sensors and provide efficient sensor clock synchronization. The product reserved a wealth of expansion ports to provide more wireless communication and storage expansion solutions.



## 2.1 Features and Benefits

- Efficient active and passive heat dissipation.
- IP5X protection meet the needs of industrial scenario.
- Vibration resistance according to IEC 60068.
- Various I/O interface and expansion and -20 to 60°C Operating temperature.
- 5xGigabit Port, support IEEE 802.3af POE optional.

## 2.2 Product Specification

EVO XAVIER II	
Processor	NVIDIA Jetson AGX Xavier

<b>AI Performance</b>	Up to 32 TOPS			
<b>CPU</b>	8-core ARM		v8.264-bit CPU	
<b>GPU</b>			512 core Volta GPU	
<b>Memory</b>	32GB 256-Bit LPDDR4 <sup>1</sup>			
<b>Storage</b>	32GB eMMC 5.1			(H.265)
<b>Video Encode</b>	4x4Kp60 8x4Kp30 16x1080p60			
	4x4Kp60 8x4Kp30			
<b>Video Decode</b>	2x8Kp30 6x4Kp60 12x4Kp30 26x1080p60			
	4x4Kp60 8x4Kp30 16x1080p60			
<b>I/O Configuration Function Key Dimensions (WxHxD)</b>	5*Gigabit	1*HDMI2.0 TYPE	1*TF Slot	1x M.2 M Key,
	4*USB 3.0 TYPE	1*USB2.0 TYPE C	2*Mini	4*Nano SIM
	1*Power Button		1*Recovery Button	
	226mmx7mmx144.5mm (I/O ports and mounting holes excluded)			
<b>Environment</b>	Operating Temperature	-25°C 60°C (50°C -65°C Frequency		
	Storage Temperature	-25°C —		
	Humidity	10-90%, non-condensing		
<b>Protection</b>	IP5X			
<b>Operation</b>	3Grms,10Hz-500Hz,1h/axis			
<b>Certificates</b>	CCC,CE,FCC,RoHS			

### 3. QUOTATION LIST

ITEMS	DESCRIPTION	QUANTITY	WEIGHT	SIZE	FOB PRICE USD
ND-100	x	680-1040Pcs	0.8kg	26*16*8.5cm	\$298



<b>EVO XAVIER II</b>	NVIDIA JETSON AGX XAVIER 32GB EMBEDDED COMPUTER	120-190Pcs	2.3kg	40*30*20cm	\$1958
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## 4. APPLICATION

- **Industrial Automation** - Xavier II can power advanced robotics and automation systems within industrial facilities. These robots can handle tasks such as assembly, material handling, and quality control with precision and efficiently.
- **Predictive Maintenance** - By analyzing data from sensors embedded in machinery and equipment, Xavier II can predict potential failures before they occur.
- **Quality Control** - Xavier II's computing power facilitates real-time analysis of production data and inspection images. It can detect defects or deviations from quality standards quickly and accurately, ensuring that only high-quality products leave the production line.
- **Supply chain optimization** - In industrial zones with complex supply chains, Xavier II can optimize inventory management, logistics, and distribution processes.
- **Safety and security** - With advanced AI capabilities, Xavier II can enhance safety and security in industrial zones. It can analyze video feeds from surveillance cameras to detect safety hazards, unauthorized personnel.

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