

Product Name	Edge Computing Embedded AI Computer
Product SKU	GAOTek-ECP-101
Product URL	https://gaotek.com/product/gaotek-edge-computing-embedded-ai-computer/

Edge Computing Embedded AI Computer



This Edge Computing Embedded AI Computer has memory of 4GB 64 Bit LPDDR4, storage of 16 GB eMMC 5.1 and operating temperature of -13 °F to 149°.

Edge computing is equipped with GAOTek 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 diagnostic terminal equipment, educational robots etc. Its high efficiency passive heat dissipation, seismic and lightning protection and other industrial standard designs, enable edge computing to adapt harsh environments such as wide temperature, escorting the safety and stability of the overall solution.

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Features

1. Connects to CSI camera

Dual MIPI CSI cameras for artificial intelligence applications such as facial recognition, road sign recognition, and license plate recognition.



2. Support 4K video Output

Mini HDMI High-Definition Port, Supports 4K video high-definition decoding and encoding.



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3. CUDA- X Software

The Jetson software stack provides Jetson Linux, development tools, CUDA-X acceleration libraries, and other NVIDIA technologies.



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Jetson TX2 NX provides next-generation AI performance for entry-level embedded and edge products, with pre trained AI models, TAO toolkits, and NVIDIA JetPack™ The SDK can help you quickly bring high-performance products to the market.



UAV



Flame and smoke recognition



Quantity and color identification



Security testing



Smart Street Lamp

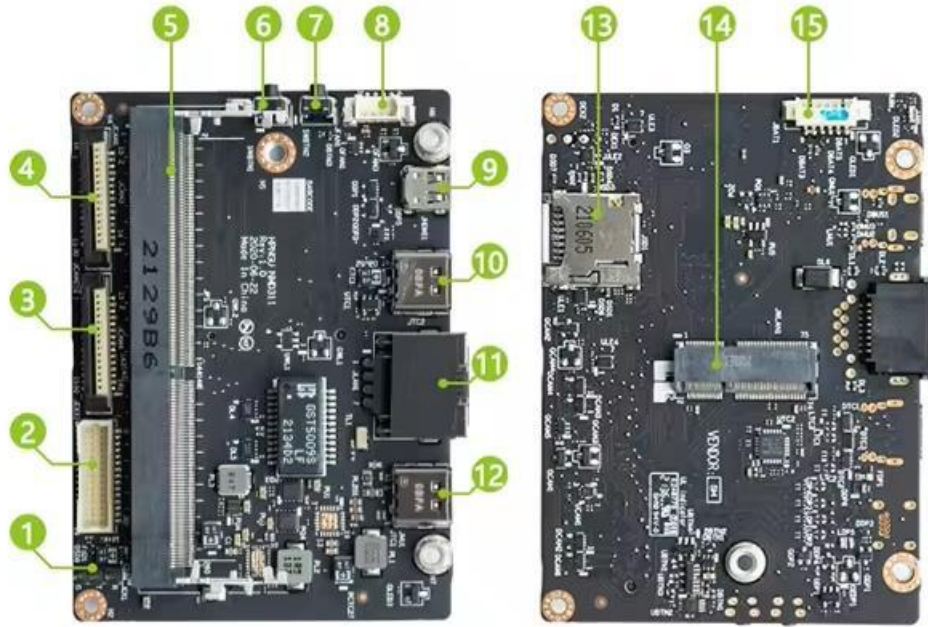


AGV trolley

4. Application Cases

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5. Interface Induction



- | | | | |
|-------------------|---------------|-----------------|--------------|
| 1. Serial port | 2. 30 EXT Pin | 3. MIPI-1 | 4. MIPI-2 |
| 5. Jetson modules | 6. Start up | 7. Reset | 8. FAN power |
| 9. Mini HDMI | 10. Type-C | 11. Gigabit LAN | 12. Power |
| 13. TF Card | 14. M.2 WIFI | 15. Battery | |

Product Specifications

ND-100			
Processor	NVIDIA Jetson Nano		
AI Performance	472 GFLOPS		
CPU	Quad-Core ARM Cortex-A57 MPCore		
GPU	NVIDIA Maxwell GPU with 128 CUDA Cores		
Memory	4GB 64-Bit LPDDR4		
Storage	16GB eMMC 5.1		
Video Encode	1x4K @ 30 (HEVC)		
	2x1080p @ 60 (HEVC)	4x1080p @ 30 (HEVC)	
Video Decode	1x4K @ 60 (HEVC)		
	4x1080p @ 60 (HEVC)	8x1080p @ 30 (HEVC)	
I/O Configuration	1*Gigabit Ethernet	1*Micro HDMI	1*Micro-SD slot
	1*USB2.0 OTG(Type-C)	1*USB3.0 (Type-C)	1*M.2 E Key WIFI
Function Key	1*Power Button	1*Recovery Button	
Dimensions(WxHxD)	122mm×65.5mm×43mm(I/O ports and mounting holes excluded)		
Environment	Operating Temperature	-25°C ~ 65°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		

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EVO Xavier II



EVO Xavier II is an embedded edge computing device designed for industrial scenarios. Provides up to 32 tops of computing power. The equipment adopts a high-efficiency active and passive heat dissipation design. This can operate subtly in harsh industrial environments. The fastening embedded action 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.

Features

- Effective active and passive heat dissipation
- IPx protection, meet the needs of industrial scenarios
- 5x Gigabit port, support IEEE 802.3af POE optional
- Vibration resistance according to IEC 60068
- 20°C – 60°C Operating temperature
- Various /interface and expansion.

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Product Specifications

Processor	NVIDIA Jetson AGX Xavier			
AI Performance	Up to 32 TOPS			
CPU	8-core ARM v8.264-bit CPU			
GPU	512-core Volta GPU			
Memory	32GB 256-Bit LPDDR4 ¹			
Storage	32GB eMMC 5.1			
Video Encode	4x4Kp60 8x4Kp30 16x1080p60 32x1080p30 (H.265)			
	4x4Kp60 8x4Kp30 14x1080p60 30x1080p30 (H.264)			
Video Decode	2x8Kp30 6x4Kp60 12x4Kp30 26x1080p60 52x1080p30 (H.265)			
	4x4Kp60 8x4Kp30 16x1080p60 32x1080p30 (H.264)			
I/O Configuration	5*Gigabit Ethernet	1*HDMI2.0 TYPE A	1*TF Slot	1×M.2 M Key, 1×M 2 B Key
	4*USB 3.0 TYPE A	1*USB2.0 TYPE C	2*Mini PCIe	4*Nano SIM Socket
Function Key	1*Power Button		1*Recovery Button	
Dimensions(WxHxD)	226mm×7mm×144.5mm(I/O ports and mounting holes excluded)			
Environment	Operating Temperature	-25°C ~ 60°C (50°C ~65°C Frequency Reduction Operation)		
	Storage Temperature	-25°C ~ 80°C		
	Humidity	10~90% , non-condensing		
Protection	IP5X			
Operation Vibration	3Grms,10Hz~500Hz,1h/axis			
Certificates	CCC,CE,FCC,RoHS			

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Contact us: sales@gaotek.com

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