

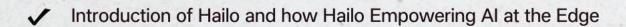
EMPOWERING AI AT THE EDGE: EXPLORING HAILO AND JHC EDGE AI COMPUTING

Nowadays, AI has become a trend of the times. AI can help us achieve intelligence in all walks of life. JHC keeps up with the trend of the times and has powerful AI edge computing system solutions.

our GPU partner Hailo, and discussed Al development and AI solutions with everyone at

HAILO X JHCTECH

Topics:



JHCTECH's Al products and solutions review

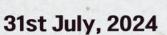
Q&A



Customer Solution Manager



Business Development Manager





16:00 pm ~ 17:00 pm (GMT+8)









Empowering AI at the Edge: Exploring Hailo and JHC Edge AI Computing						
16:00 ~ 16:05	Opening Chi Chi Wang, Marketing Manager, Shenzhen Office					
16:05 ~ 16:25	Introduction of Hailo and How Hailo Empowering Al at the Edge Kev Wang, BD Manager, Hailo					
16:25 ~ 16:45	JHCTECH's BRAV AI Products and Solutions Review Gary Shu, Customer Solution Manager, JHCTECH					
16:45 ~ 16:55	Q&A					

PART 0 1

《Introduction of Hailo and how Hailo Empowering Al at the Edge》

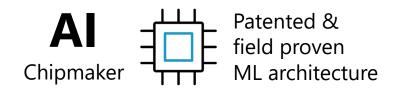
Kev Wang, BD Manager, Hailo



Empowering Al at the Edge

Kev Wang, Greater China BD 07 2024

Hailo in Numbers



Founded in 2017

in mass production

>10x**Revenue Growth** 2021-2023

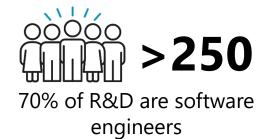


>300 Customer **Programs**

10s of products in production







A Globally Trusted Brand

Among our Partners





































Awards











Certificates







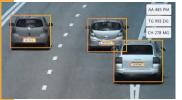


Empowering Edge Applications with Al

Hailo's powerful & scalable AI technology enables new capabilities in various markets



Security







ITS, Perimeter Protection, Access Control



Industrial Automation







AMR/AGV, AOI, Building Management, Robotics, Machinery



Automotive







ADAS, Autonomous Driving, In-Cabin Monitoring



Retail







Point of Sale, Supply Chain Management

Hailo-8TM

Al Accelerators



Hailo-8 Highlights

Powerful & Efficient

High Performance

• 13-208 TOPS

Efficient Al architecture

- No external DRAM
- Low power consumption
- Low latency



Versatile

Comprehensive Software Suite

- Mature dataflow compiler
- Efficient RT library
- Rich Model 700

Industrial & Automotive Grades

- Industrial: -40°C to 85°C
- Automotive: -40°C to 105°C

Scalable & Flexible

- Multi-streams
- Multi-model
- Multi-chip

Hailo-8 Product Portfolio

Hailo-8L Entry-Level Al Accelerator



CoB -13 TOPS

M.2 Entry-Level Al **Acceleration Modules** 13 TOPS



Key B+M 2 lanes



Key A+E 2 lanes

Hailo-8 **Al Accelerator**



CoB -26 TOPS

M.2 Al Acceleration Module 26 TOPS



2 lanes



Hailo-8R mPCle Al **Acceleration Module** 13 TOPS



Hailo-8 Century High Performance PCIe Cards



Small Form Factor 52-104 TOPS

0802, 0803, 0804



Wide Host Compatibility

104-208 TOPS

0804S, 0805S, 0806S, 0807S, 0808S

Hailo-8 Competitive Analysis

Unprecedented Al Performance & Power Efficiency



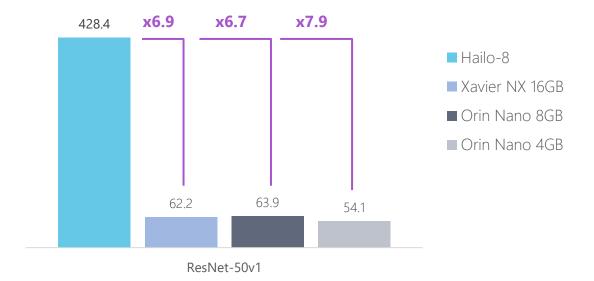
Deep Learning Performance Comparison

Hailo-8 vs. Xavier NX & Orin Nano 4GB/8GB

Performance (FPS)



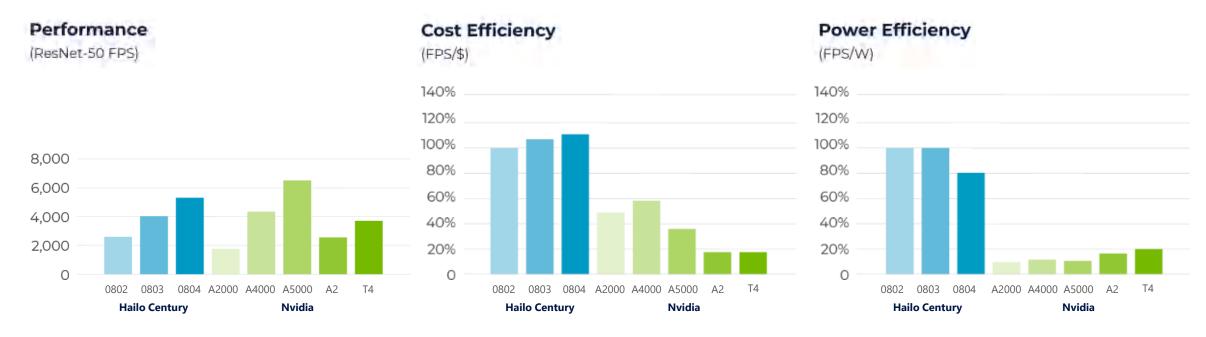
Power Efficiency (FPS/W)



High Performance Card Comparison

Hailo-8 Century vs. Nvidia

Small Form Factor



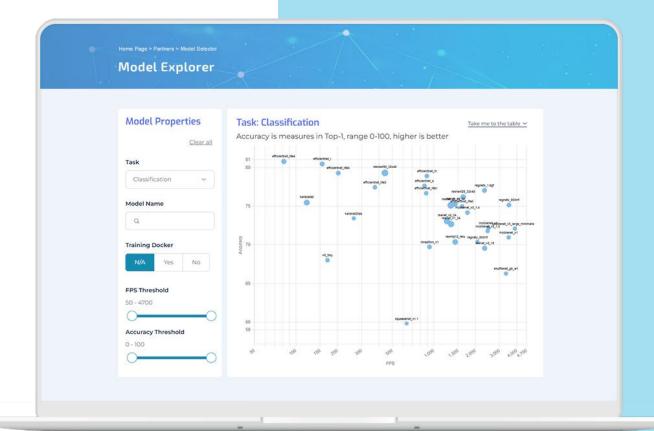
Software Highlights



Model Explorer

Quickly select the right NN model for your Al application

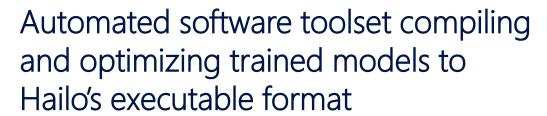
- Filter according to:
 - → Task & Model
 - → FPS min. & max. threshold
 - → Accuracy min. & max. threshold



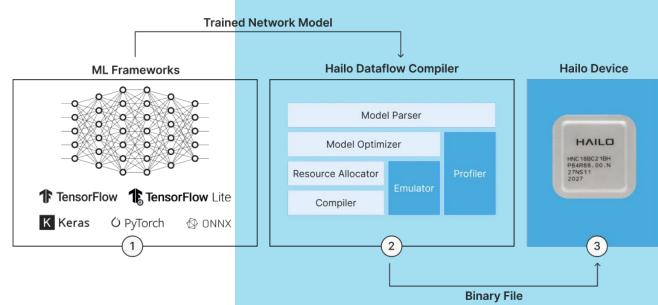
www.hailo.ai/developer-zone/model-explorer/



Hailo Dataflow Compiler



- Efficient quantization scheme allowing flexibility between performance and accuracy
- Automated resource allocation for meeting user's requirements in FPS, latency and power consumption
- Accurate profiling (FPS, power, latency) and bit-exact emulation of expected accuracy
- Supporting multiple Hailo devices and forward compatible



Customer Stories



Al-Automated Parking Enforcement

- Enables highly accurate identification of all non-compliant vehicles in real-time
- Enables operation in a wider range of poor visual conditions where classic solutions would fail
- Enables easy adoption to different locales (different license plate formats and character sets)



Lower cost – a single Hailo-8 processor replace the Jetson class GPUs, with a similar number of streams and a 75% cost saving



Low power consumption – Hailo-8 consumes 1/8 of the power needed for the Jetson GPU



Easy to use – Seamless integration through comprehensive documentation and open communication



"...as soon as we gave Hailo-8 a try, we quickly realized that there was no turning back. The chip surpassed our expectations in all measured parameters, outperforming even with complex NN models and real-life conditions"

Shalom Dimant, Head of Al Engineering, WiseSight Technologies



Hailo-8 Al Processer

- Al accelerator module for edge Al applications
 - → Multiple form factors with Hailo-8[™] Al accelerator processor
 - Compatible with X86, Arm platform with Windows or Linux OS
 - Best-in-class real-time performance utilizing the Hailo- 26 TOPS compute power
 - → Industry-leading power efficiency with a typical power consumption of 2.5W
- Robust software toolchain supports state-of-the-art DL models and applications out-of-the-box





THMKYOU





PART 02

《JHCTECH's BRAV AI Products and Solutions Review》

Gary Shu, Customer Solution Manager, JHCTECH

JHCTECH



CONTENTS



JHCTECH Edge AI GPU Computers

Driving the Future of Intelligent Transportation and Empowering Industrial AI Applications Innovation













Fanless Box Computer

KMDA 39/59/69/79



GPU In-Vehicle Computer

KMDA 3602



BRAV Series





JHCTECH MEC BRAV Solutions

No	Model No.	CPU	Al Accelatator	Al hashrate	Power dissipation	IO function	Heat dissipation method
Solution 1	KMDA-3602	Sky lake/Kaby lake-S	1*MXM Accelerator	16TOPS	65W	7*Gig LAN + 4G	fanless box PC
	BRAV-7302	series 4 Cores	1*MXM Accelerator	128TOPS	175W	7*Gig LAN + 4G	Air cooling heat dissipation Box
Solution 2	BRAV-7201	Sky lake/Kaby lake-U series ULT Dual Cores	Hailo-8 VPU-M.2 1*MLU220-M.2	8TOPS	25W	5*Gig LAN + 4G	fanless box PC
Solution 3	BRAV-7501	Coffee lake-S series 8 Cores	2*PCleX16 Accelerator	264TOPS	225W	3*Gig LAN + 4*10G LAN+ 4G	Air cooling heat dissipation Box
Solution 4	BRAV-7520	Coffee lake-S series	1*PCle/M.2 Accelerator	128TOPS	110W	3*Gig LAN + 4*10G LAN+ 4G+5G	Active and Passive heat dissipation BOX
	BRAV-7521	8 Cores	2*PCle/M.2 Accelerator	264TOPS	195W	3*Gig LAN + 4*10G LAN+ 4G+5G	Active and Passive heat dissipation BOX
Solution 5	BRAV-7601	Comet lake series 10 Cores	MXM3.1 Accelerator	128TOPS	145W	3*Gig LAN + 4*10G LAN+ 4G+5G	Active and Passive heat dissipation BOX
Solution 6	BRAV-7220	Tiger lake-U 4 Cores	Hailo-8 VPU-M.2 1*MLU220-M.2	26TOPS		3*Gig LAN + 4G+5G	fanless box PC
Solution 7	BRAV-7720	Alder lake-S	1*PCle/M.2 Accelerator	128TOPS	110W	3*Gig LAN + 4*10G LAN+ 4G+5G	Active and Passive heat dissipation BOX
	BRAV-7721	16 Cores	2*PCle/M.2 Accelerator	264TOPS	195W	3*Gig LAN + 4*10G LAN+ 4G+5G	Active and Passive heat dissipation BOX
Solution 8	BRAV-7131	NVIDIA Jetson Orin 8 Cores					

BRAV ROADMAP

BRAV-7201



Skylake-U/Kaby lake-U



Comet lake-S



BRAV-7601

BRAV-7220



Tiger lake

Alder lake-S/Raptor lake-S

BRAV-7720/7721



BRAV-7720/7721-WP

Skylake S/Kaby lake-S



BRAV-7302

<Coming soon>

BRAV-7131

BRAV-7121/7120





ARM Cortex®-A78AE



Intel X86 Alderlake-S/ Raptor lake-S							BRAV-7720/7721 BRAV-7720/7721-WP	
Intel X86 Tiger lake			BRAV-7220					
Intel X86 Comet lake-S			M BRAV-7601	P				
Intel X86 Coffee lake	BRAV-7501	MP	BRAV-7520/7521 BRAV-7520/7521-WP	IP				
Intel X86 Skylake S/ Kaby lake-S	BRAV-7302	MP						
Intel X86 Skylake-U/ Kaby lake-U			BRAV-7201	P				
ARM Cortex®A78AE							MF BRAV-7131	Developing BRAV-7121/7120
	Before 2	020	2020~2022	2023	Q1	2023 Q2	2023 Q3	2023 Q4

Planning

Developing

MP

www.jhctechnology.cn

BRAV Series-GPU/AI Accelerator card support list

1

NVIDIA Geforce
GTX-16/30 Series

5

<u>Cambricon Full Series</u> <u>Al Accelerator Cards</u> <u>MLU370/270/220 Series</u> <u>HuaweiAtlas 3001 Series</u> 2

NVIDIA Geforce
RTX-40 Series

6

<u>Goldwasser-</u> <u>MXM/UL/L/XL Series</u> <u>Iluvatar</u> <u>MR50/100 Seires</u> 3

NVIDIA Quadro
Pro Graphics Cards
A Series

7

<u>Sophgo SC5H & SC5+</u> Enflame I20 & I10



NVIDA MXM RTX-16/30/Pro



Intel ARC A770/A750 HAILO-8

BRAV-7601 Product Feature

























Key Features

- Intel® Comet lake 10th-Gen Celeron/Pentium/Core™ i9/i7/i5/i3 CPU
- Two temperature control fan , aluminum chassis
- 3*2.5G-LAN+4*Gig-LAN with POE function
- 3*M.2 support Gig+WiFi6, 4G LTE, 5G NR module
- 1*MXM3.1, supports MXM GPU modules and Al acceleration cards which power consumption lower than 190W
- DC9~36V wide power input



02 BRAV-7601 Features





3*2.5G-LAN

2*Intel I225V+1*I225 LM

B key support 5G NR, 4G LTE E key support NVME, or PCIe expansion module

ECB-147

4*I210AT/211T Gig. Ethernet with POE function



2*2.5" HDD SATA3(support RAID0,1), max support dual15mm highly HDD, max 6Gbps transport speed, max capacity to reach 6TB



1*M.2 Type 2280 M-Key(PClex4), support NVMe



1*mSATA, SATA3 6.0Gbps



Intel® 10th **Comet Lake-S**Core i9/i7/i5/i3/Pentium/Celeron
Intel® Q470 PCH



Heat Dissipation

Aluminum chassis, active and passive heat dissipation, dual temperature control fan



Isolated DIO 8-channel 2.5KV optically isolated PNP or NPN DI; 8-channel 2.5KV optically isolated DO



LAN

3*2.5G LAN +4*POE+(25.4W/48V)

Display

VGA+2 *HDMI, 3 Independent display, 2*DP, GPU Display



Wireless

3*M.2 support **Gig+WiFi6**, **4G LTE**, **5G NR** wireless module

Al Acceleration Performance

7
1*MXM3.1 (PCIe×16 signal)
Supports MXM GPU modules and
Al accelerator cards with power
consumption less than 190W



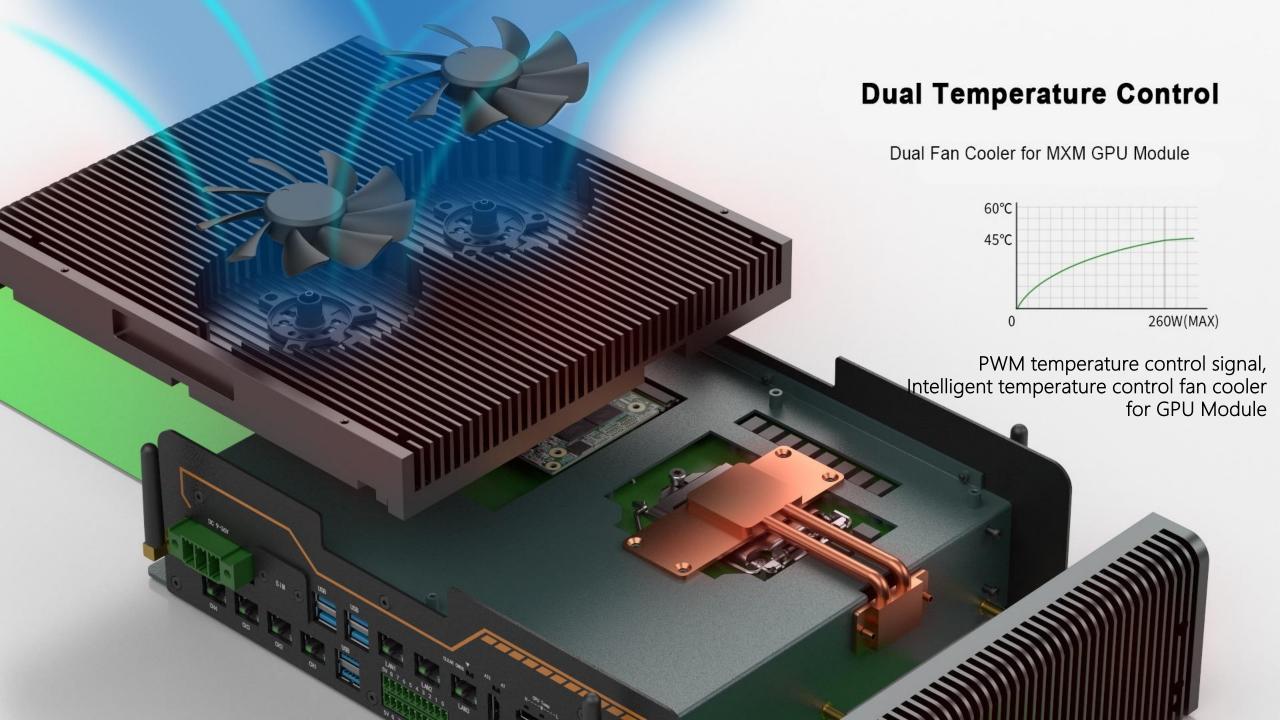
Power Supply

DC **9~36V wide** voltage power supply, with reverse polarity protection, over-current and over voltage protection

Storage

9

1*mSATA, 1*M.2 NVME, 2*2.5" SATA3 easy-to-swap, supports RAID 0/1 Protects data security, supports drives up to 15mm thick, dual drives with a maximum capacity of up to 12TB.









BRAV-7220 Product Feature



can be empowered by **H****I**L

Model	BRAV-7220					
CPU	Tiger lake-U Core 13/15/17 /Pentium/Celeron					
RAM	Dual Channel DDR4 SODIMM					
LAN	3*2.5G LAN					
Display	1*DP, 1*HDMI					
USB	2*USB3.2, 3*USB2.0					
Serial Port	2*RS232/422/485					
Expansi on	1*M.2 3042 B-Key with SIM slot 1*M.2 3052 B-Key with SIM slot 1*M.2 2280 M-Key PClex2 Gen4.0 signal 1*M.2 2280 M-Key PClex2 Gen3.0 signal					
Storage	1*2.5" HDD/SSD SATA3,1*mSATA ,2*M.2 Type 2280 M-Key					
Power Supply	DC 9-36V Universal Wide Voltage Input DC 12V/3A Radar Power Supply					

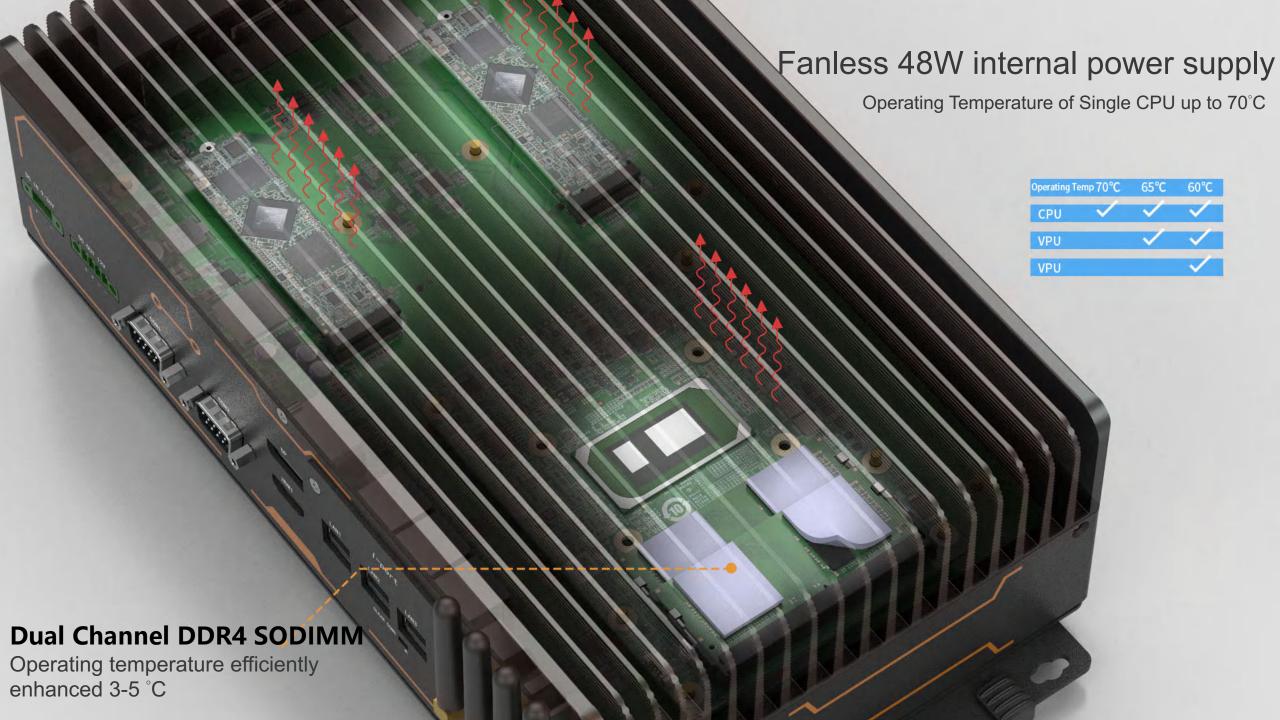
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Product Highlight

1	2	3	4	5
Tiger lake CPU	High- Performance Graphics	Dual M.2 AI acceleration computing module	Intel TCC and TSN	Support 5G/4G
6	7	8	9	10
2.5G network port	PCIe×2 Gen4.0 high-speed Storage	According to the Intel IEN Type-F standard	Flexible installation (Horizontal and DIN rail mounting)	Vibration Reduction Design
11	12	13		
vPro Remote management	Efficient Heat Dissipation	DC-OUT Power Supply		









BRAV-7720 Product Feature



Model	BRAV-7720	
CPU+PCH	Intel®12/13th-Gen Alder lake-S/Raptor lake-S Core™ i9/i7/i5/i3/Pentium/Celeron + Q670 PCH	
Memory	Memory 2DDR5 SODIMM dual-channel memory, up to 96GB	
LAN	2*Intel I226V +1*Intel I219LM	
Graphics	1*DP, 1*HDMI, 1*VGA	
USB	6*USB3.2	
Serial Port	Port 2*RS232/422/485	
Expansion	1*Full size Mini PCIe with SIM card slot, 1*mSATA 1*M.2 3052 B-Key with SIM card slot 1*M.2 2280 M-Key Gen4.0 PCIeX4 signal 1*PCIe X16 Gen5.0 X16 signal 1*PCIe X16 Gen4.0 X4 signal	
Storge	2*2.5" HDD/SSD SATA3, 1*Mini PCle, 1*M.2 2280 M-Key	
Power Supply	DC IN 12V power supply DC 12V/6A Power output for radar	



BRAV-7720-WP Product Feature



Model	BRAV-7720-WP	
CPU+PCH	Intel® Alder lake-S 12th-Gen Core™ i9/i7/i5/i3/Pentium/Celeron + Q670 PCH	
Memory	2*DDR5 SODIMM dual-channel memory, up to 96GB	
LAN	2*Intel I226V +1*Intel I219LM	
Graphics	1*DP, 1*HDMI, 1*VGA	
USB	6*USB3.2	
Serial Port	2*RS232/422/485	
Expansion	1*Full size Mini PCIe with SIM card slot, 1*mSATA 1*M.2 3052 B-Key with SIM card slot 1*M.2 2280 M-Key Gen4.0 PCIeX4 signal 1*PCIe X16 Gen5.0 X16 signal 1*PCIe X16 Gen4.0 X4 signal	
Storge	2*2.5" HDD/SSD SATA3,1*Mini PCIe,1*M.2 2280 M-Key	
Power Supply	DC IN 9-55V Wide voltage power supply DC 12V/6A Power output for radar	



BRAV-7721 Product Feature



Model	BRAV-7720	
CPU+PCH	Intel®12/13th-Gen Alder lake-S/Raptor lake-S Core™ i9/i7/i5/i3/Pentium/Celeron + Q670 PCH	
Memory	2*DDR5 SODIMM dual-channel memory	
LAN	2*Intel I226V +1*Intel I219LM	
Graphics	1*DP, 1*HDMI, 1*VGA	
USB	6*USB3.2	
Serial Port	rial Port 2*RS232/422/485	
Expansion	1*Full size Mini PCIe with SIM card slot, 1*mSATA 1*M.2 3052 B-Key with SIM card slot 1*M.2 2280 M-Key Gen4.0 PCIeX4 signal 2*PCIe X16 Gen5.0 X8 signal 2*PCIe X16 Gen4.0+Gen3.0 X4 signal	
Storge	2*2.5" HDD/SSD SATA3, 1*Mini PCle, 1*M.2 2280 M-Key	
Power Supply	DC IN 12V power supply DC 12V/6A Power output for radar	



BRAV-7721-WP Product Features



Model	BRAV-7720
CPU+PCH	Intel®12/13th-Gen Alder lake-S/Raptor lake-S Core™ i9/i7/i5/i3/Pentium/Celeron + Q670 PCH
Memory	2*DDR5 SODIMM dual-channel memory
LAN	2*Intel I226V +1*Intel I219LM
Graphics	1*DP, 1*HDMI, 1*VGA
USB	6*USB3.2
Serial Port	2*RS232/422/485
Expansion	1*Full size Mini PCIe with with SIM card slot, 1*mSATA 1*M.2 3052 B-Key with SIM card slot 1*M.2 2280 M-Key Gen4.0 PCIeX4 signal 2*PCIe X16 Gen5.0 X8 signal 2*PCIe X16 Gen4.0+Gen3.0 X4 signal
Storge	2*2.5" HDD/SSD SATA3,1*Mini PCle,1*M.2 2280 M-Key
Power Supply	DC IN 9-55V Wide voltage power supply DC 12V/6A Power output for radar



Comparison of BRAV-7720/7721 and BRAV-7520/7521 specs

	BRAV-7720	BRAV-7721	BRAV-7520	BRAV-7521
СРИ	Intel® 12/13th-Gen Alder lake-S/Raptor lake-S Core™ i9/i7/i5/i3/Pentium/Celeron		Intel® Xeon® E or Intel® Coffeelake-R 9th/8th-Gen Core™ i7/i5/i3	
PCH	Q670		Q370 or C246	
Memory	2*DDR5, up to 98GB		4*DDR4, up to 128GB	
Graphics	DP+HDMI+VGA		DP+DP+VGA	
LAN	2*I226V+1*I219LM		2*I210AT+1*I219LM	
Expansion	1*Full-size Mini PCle with SIM card slot 1*Full-size Mini PCle, SATA signal, and PCle signal auto- detection feature 1*M.2 3052 B-Key with SIM card slot 1*M.2 2280 M-Key Gen4.0 PCleX4 signal 1*PCle X16 Gen5.0 X16 signal 1*PCle X16 Gen4.0 X4 signal	1*Full-size Mini PCIe with SIM card slot 1*Full-size Mini PCIe, SATA signal, and PCIe signal autodetection feature 1*M.2 3052 B-Key with SIM card slot 1*M.2 2280 M-Key Gen4.0 PCIeX4 signal 2*PCIeX16 Gen5.0 X8 signal 2*PCIeX16 Gen4.0+Gen3.0X4 signal	1*Full-size Mini PCle with SIM card slot, can be set to mSATA through BIOS 1*M.2 2230 E-Key with SIM card slot 1*M.2 3052 B-Key 1*M.2 2280 M-Key Gen3.0 PCleX4 signal 1*PCle X16 X16 signal 1*PCle X16 X4 signal	1*Full-size Mini PCIe with SIM card slot, can be set to mSATA through BIOS 1*M.2 2230 E-Key with SIM card slot 1*M.2 3052 B-Key 1*M.2 2280 M-Key Gen3.0 PCIeX4 signal 2*PCIe X16 X8 signal 2*PCIe X16 X4 signal



Comparison of BRAV-7720/7721 and BRAV-7520/7521 specs

	BRAV-7720	BRAV-7721	BRAV-7520	BRAV-7521
Storage	2*2.5" HDD/SSD SATA3, 1*Mini PCIe (auto-detection), 1*M.2 2280 M-Key		2*2.5" HDD/SSD SATA3, 1*Mini PCIe (BIOS setting), 1*M.2 2280 M-Key	4*2.5" HDD/SSD SATA3, 1*Mini PCle (BIOS setting), 1*M.2 2280 M-Key
Audio	Audio out + Mic		Audio out + Mic	
DIO	Optional 16bit DIO, TTL signal, programmable input/output		16-bit isolated DIO	
USB	6*USB3.2		6*USB3.1 + 2*USB2.0	
СОМ	2*RS232/422/485		2*RS232/422/485 + 2*RS232	
os	Windows 11, Windows 10 IoT Enterprise 2021 LTSC, Ubuntu, SuSe, Red Hat Enterprise, Wind River Linux, Wind River VxWorks 7			



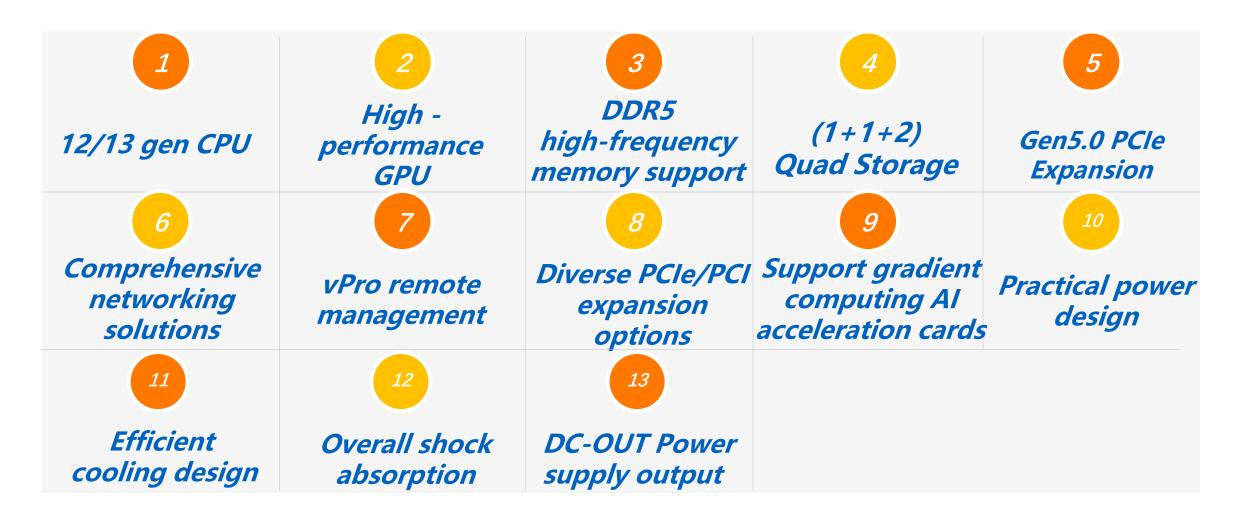
Supporting NVIDIA GPU cards or AI accelerator cards with different computing power

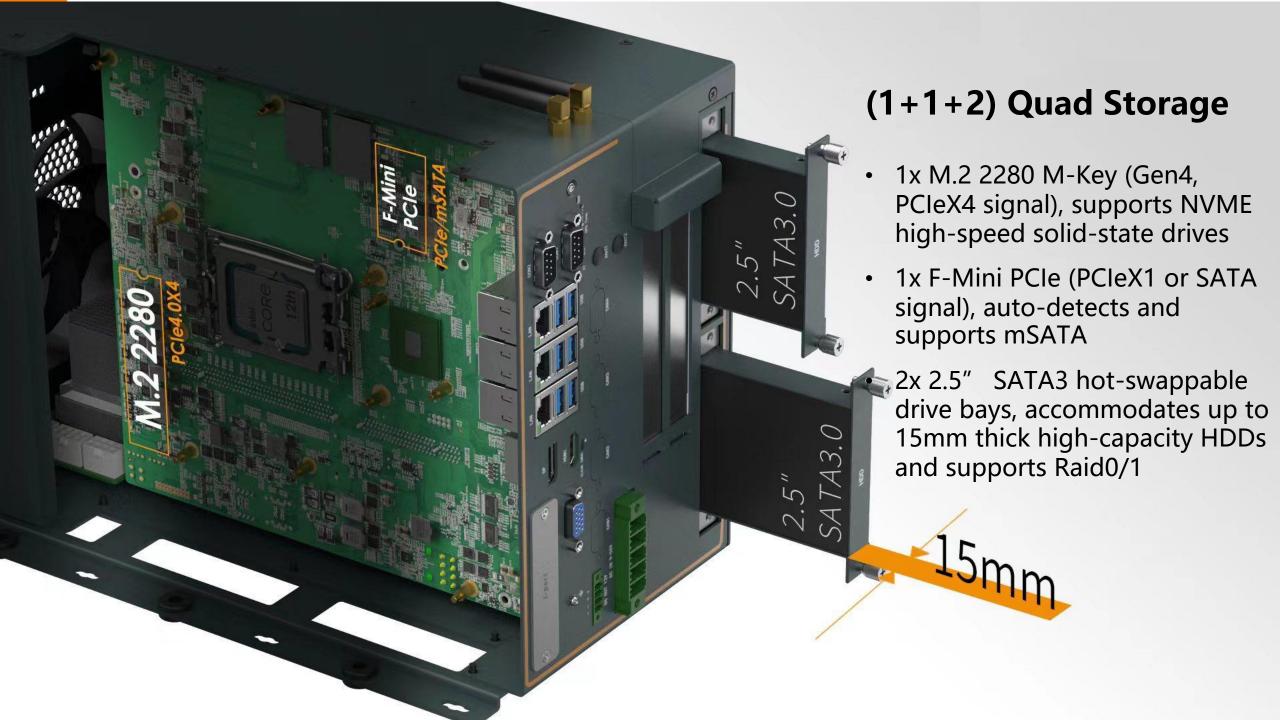
- Deep chassis body length: 362.5mm length can accommodate the GPU card with length up to 300-320mm;
- High Power supply up to **1000W**: ensure the power supply requirements of dual GPU cards (450W+350W or 350W+350W etc).
- The unique power supply design of the expansion card ensures the power supply stability of 75W and 150W acceleration cards and GPU cards of different power levels.

Video card series	Model number
NVIDIA GTX 16 series GeForce GPU card	GeForce GTX 1660 Ti、GeForce GTX 1660 Super、GeForce GTX 1660、GeForce GTX 1650 Super、GeForce GTX 1650 (G5)、GeForce GTX 1650 (G6)、GeForce GTX 1630
NVIDIA RTX 30 series GeForce GPU card	GeForce RTX 3090 Ti、GeForce RTX 3090、GeForce RTX 3080 Ti、GeForce RTX 3080、GeForce RTX 3070 Ti、GeForce RTX 3070、GeForce RTX 3060 Ti、GeForce RTX 3060、GeForce RTX 3050
NVIDIA Professional	NVIDIA A10 GPU、NVIDIA A16 GPU、NVIDIA T4 GPU、NVIDIA RTX A6000、NVIDIA RTX A5000、NVIDIA RTX A4000、NVIDIA RTX A2000
China Domestic AI accelerator card	DENGLIN Goldwasser-L128、DENGLINGoldwasser-L256、DENGLINGoldwasser-UL32、DENGLIN Goldwasser-UL64、Iluvatar MR-50、Iluvatar MR-100、Cambricon MLU370-S4、Cambricon MLU370-X4



7720/7721 Product design highlights







Overall Shock Absorption

 Wide-voltage WP models use a shockabsorbing chassis as a mounting bracket to ensure anti-vibration performance in mobile environments

 Non-wide-voltage models come with six shock-absorbing rubber feet for installation.





BRAV-7131 Product Features



















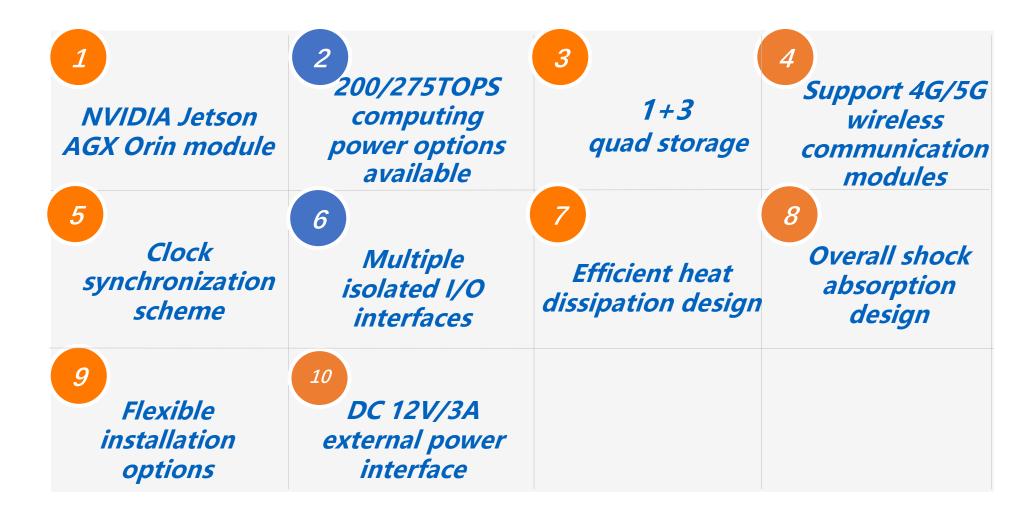


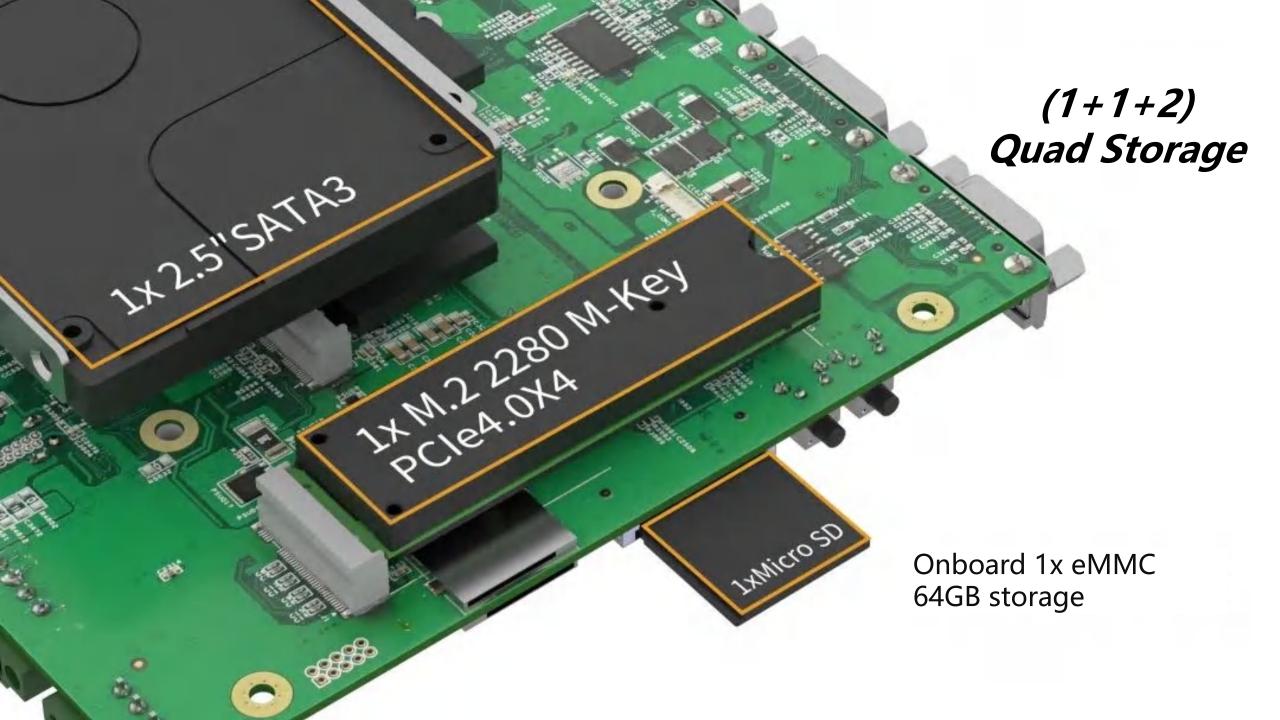


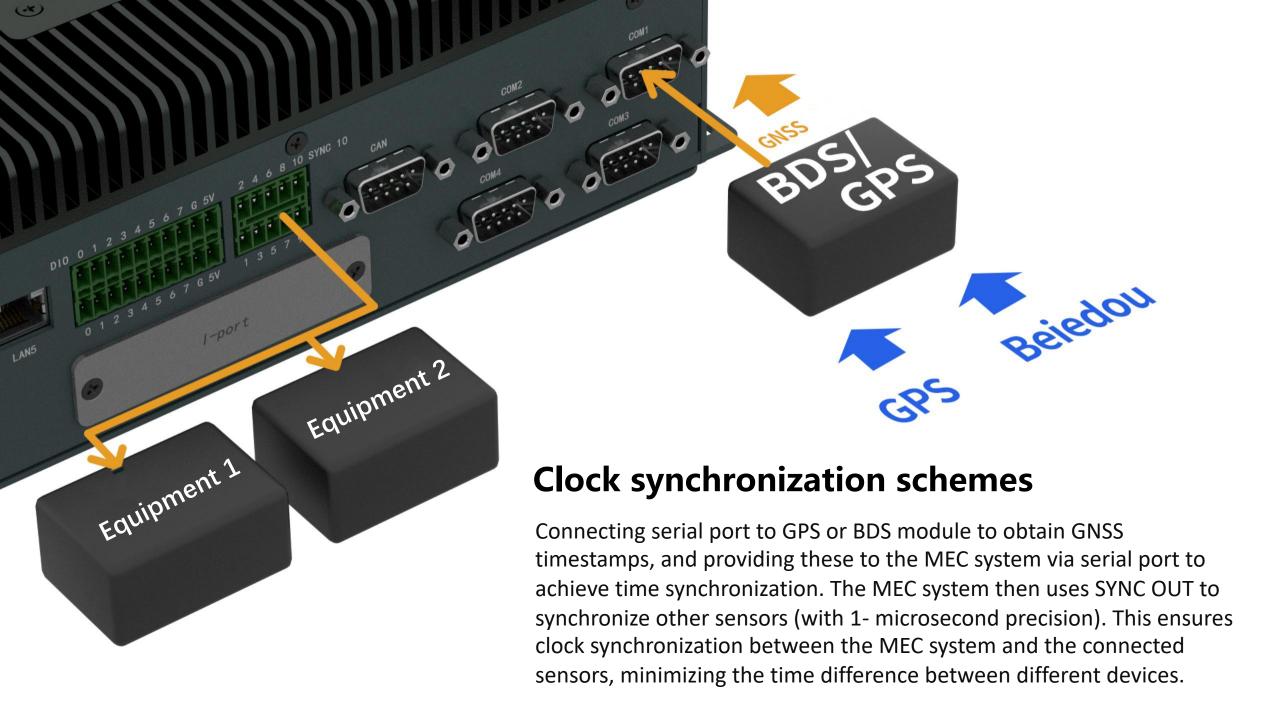
- NVIDIA Jetson AGX Orin 32/64G, 200/275TOPS
- 8/12*Cores ARM Cortex-A78AE CPU, 2.2GHz(maximum frequency)
- NVIDIA Ampere GPU with Tensor Cores
- Onboard 32/64G 256bit LPDDR5 RAM and 64GB eMMC,
- 1*M.2 M-Key NVME and optional 1*2.5 "SATA bay
- 1*HDMI, 1*Audio Line-out, 5*LAN, 2*USB3.2, 2*USB2.0, 4*COM, 2*CAN, 16-bit DIO,1*SYNC IO
- 1*F-Mini PCle and 1*M.2 B-Key support 4G LTE or 5G NR, 1*M.2 E-Key support Wifi & BT wireless routes
- DC9~36V wide power input, with OVP, OCP, and SCP
- Aluminum-magnesium alloy chassis, Fan cooling design



BRAV-7131 Product Design Highlights







BRAV Series Product Highlights

◆ A multi-core heterogeneous distributed computing platform for AloT, utilizing a universal CPU architecture such as X86 or ARM alongside heterogeneous Al computing architecture.

(Solving the pain point of architectural standardization)

◆ CPU options ranging from dual-core to 16-core with varying performance levels, and AI accelerator card options ranging from 8TOPS to 630TOPS.

(Solving the pain point of fixed inference computing power.)

- CPU and AI computing chips achieve integration through application algorithms
 CPU handles data access, parsing, communication management, data exchange, data storage and forwarding, remote device management, etc.; AI chips manage decoding, deep learning, and inference.
 (Solving the pain point of low efficiency)
- ◆ Network communication includes wireless 4G LTE and 5G, along with 3-7 Gigabit Ethernet ports and optional 2-4 10 Gigabit Ethernet ports.

(Solving the pain point of low efficiency)

 Supports 12V DC power output to supply sensors, ensuring synchronized power timing between sensor devices and MEC.

- ◆ NTP network time synchronization and satellite time synchronization ensure clock synchronization.
- ◆ Utilizing SSD as the system disk and RAID disk arrays for storage disks ensures independence between the system disk and data disks, guaranteeing system reliability and data security. (solving the pain point of low data storage security.)
- Optional support for HSM (Hardware Security Module) ensures data output security, addressing the pain point of data storage security.

(Supporting resolves the pain point of data transmission security.)

- Supporting vPro remote management technology and OTA (Over-The-Air) online upgrade functionality for remote hardware management and software maintenance.
 (Solving the pain point of low maintainability.)
- ◆ Features a professional and efficient thermal design solution (passive cooling → combined active and passive cooling → active cooling) suitable for outdoor wide temperature operation: Operating temperature ranges from -20 to +60°C, with some products capable of -30 to +70°C. (Solving the pain point of low applicability.)
- ◆ PCBs utilize a three-proof (anti-mold, anti-humidity, antisalt spray) coating process and fanless IP51 grade protection (dustproof).

(Solving the pain point of low reliability.)

Market Direction of BRAV Series Products

High-end AGV

Multi-tasking heavy-duty unmanned container AGV in ports, unmanned delivery AGV, intelligent forklifts for cargo transport, and electric or firefighting intelligent inspection AGV, utilizing video and laser radar combination navigation.

Autonomous Driving / Intelligent Driving:

Intelligent autonomous buses, intelligent unmanned reconnaissance vehicles, smart patrol vehicles for islands, and high-speed rail unmanned driving systems.

Edge Computing in Traffic Roadside

Vehicle-to-Everything (C-V2X) edge computing for roadside, intelligent edge computing for railway freight columns.

Machine Vision and Robotics

Intelligent video inspection machines, 3D visual guidance positioning, mobile explosive ordnance disposal / mine-clearing robots.

Intelligent Video Security

Bright projects including park facial recognition, mobile portable facial recognition analyzers, customs and border self-service clearance, and facial passage self-security checks.

AI + Healthcare Medical Imaging

Lesion identification and adaptive therapy targeting, disease prediction such as gene sequencing testing and leukemia prediction, etc.



Smart Sentry System



Facial Recognition Application



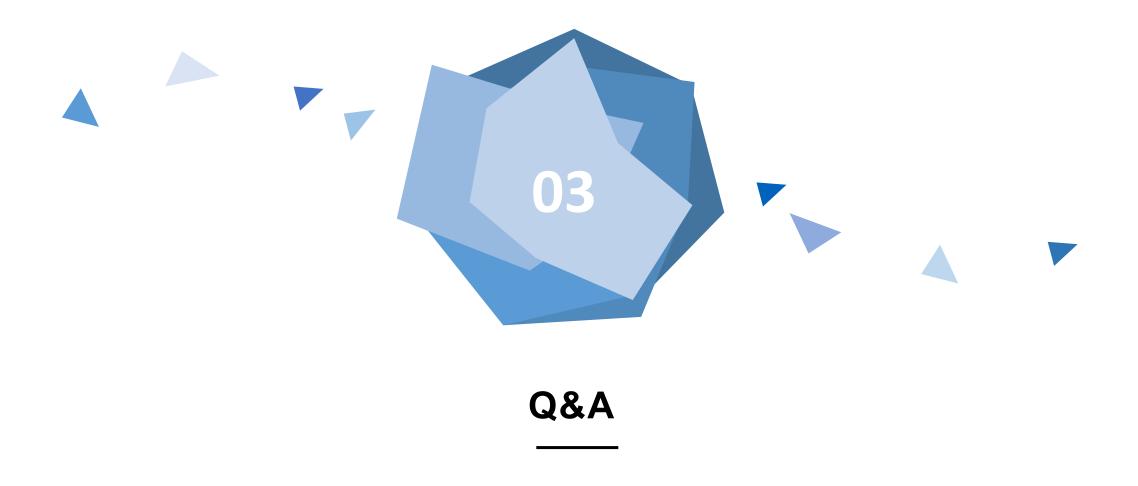
Roadside MEC



Intelligent Video Inspection Machine



DWS Intelligent Sorting System



Q1: Can BRAV-7601 support CAN module?

A1: Yes, it can support CAN module, but need to remove VGA display cable.

Q2: What's the voltage power supply of BRAV-75xx or BRAV-77xx?

A2: The standard model is DC 12V input, but you can choose WP model can support 9-55V.

Stay in Touch



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