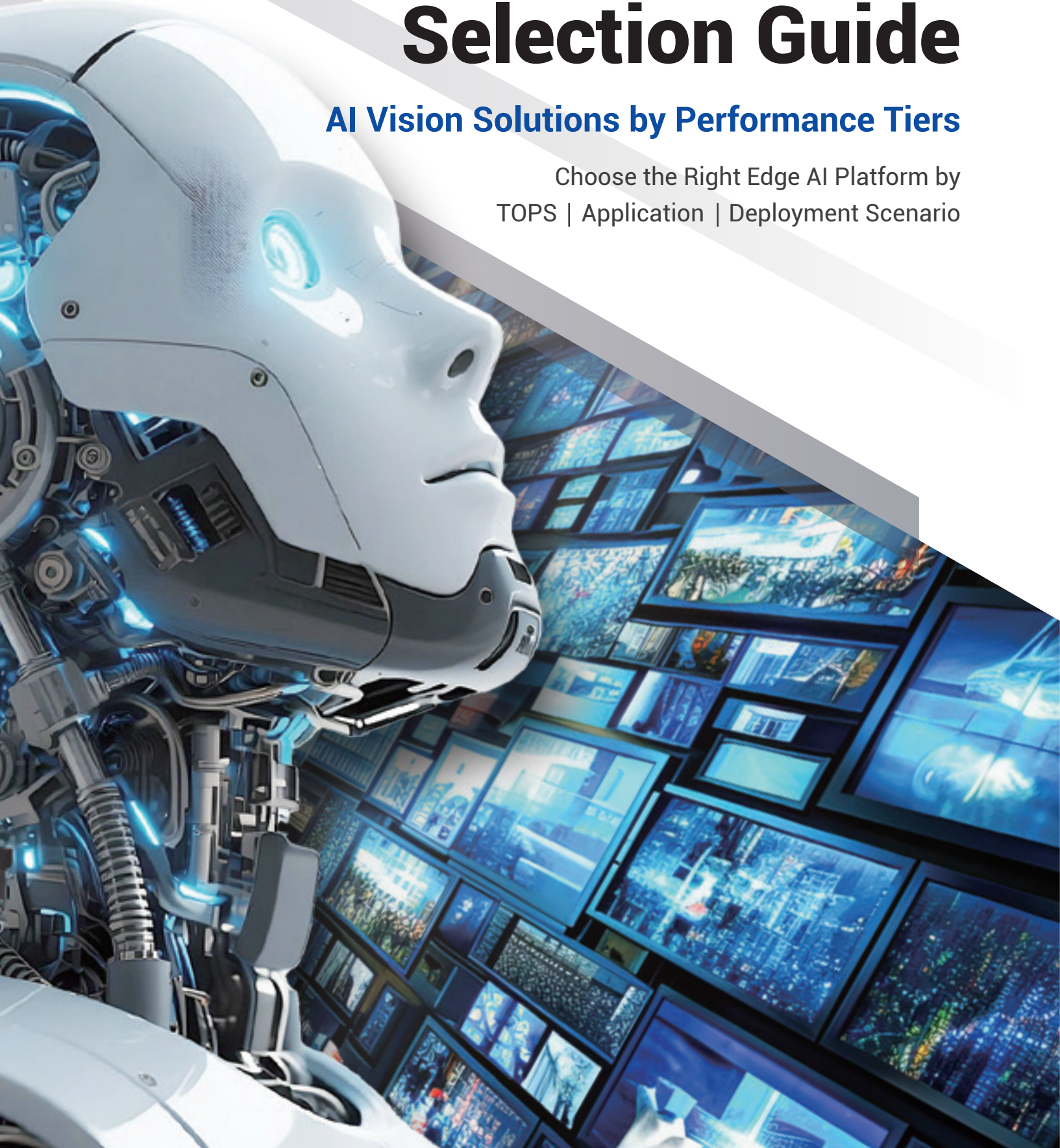


AI Vision Computing Selection Guide

AI Vision Solutions by Performance Tiers

Choose the Right Edge AI Platform by
TOPS | Application | Deployment Scenario

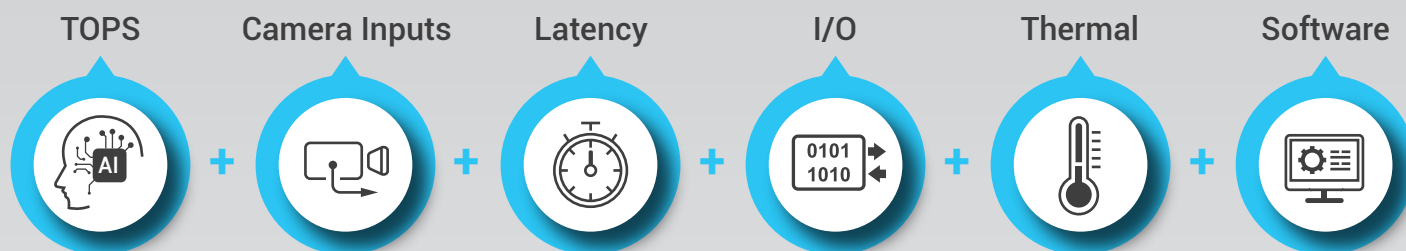


Why AI Vision Needs Performance Tiers

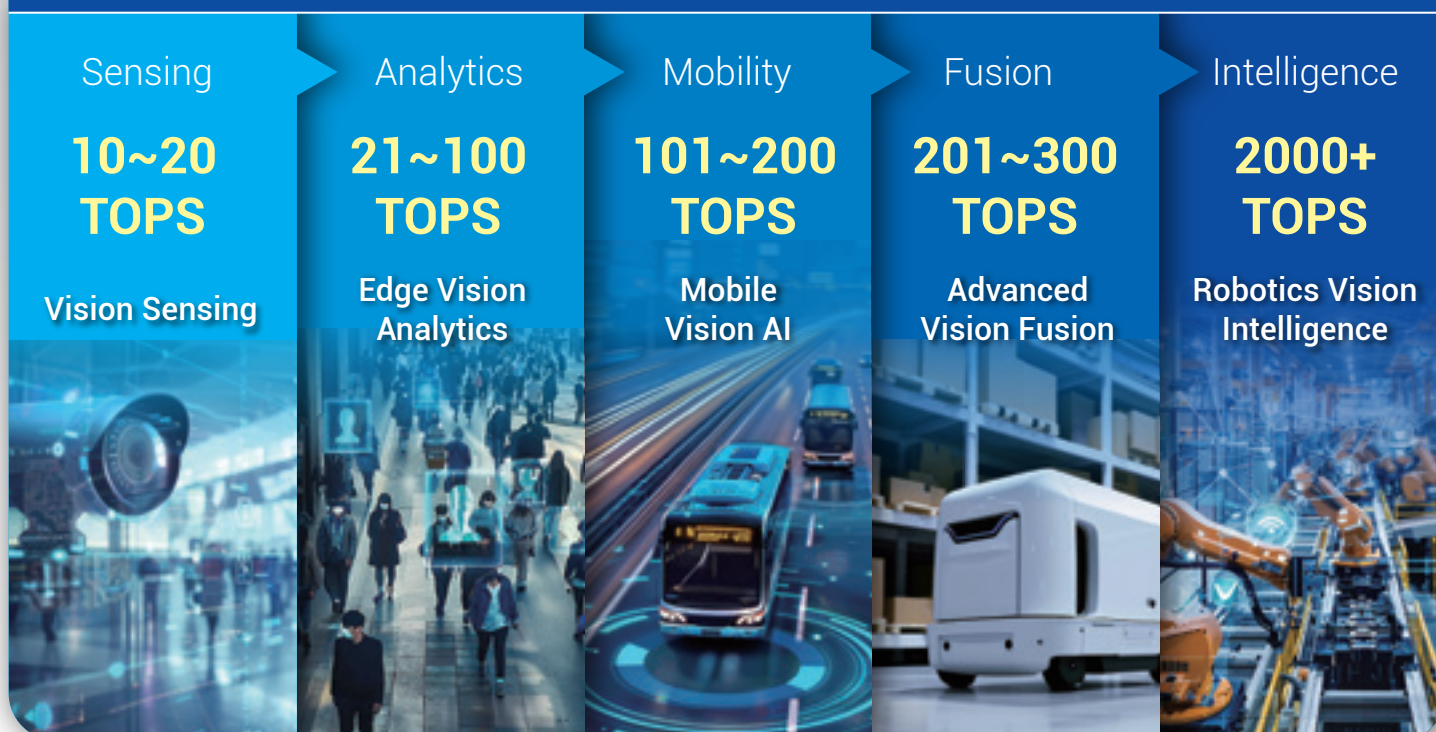
AI Vision is no longer limited to image capture or basic detection. As applications move toward real-time analytics, mobility, sensor fusion, and robotics intelligence, selecting the right AI performance tier becomes critical.

TOPS provides a practical reference for comparing AI inference performance. However, real-world performance also depends on model type, camera channels, resolution, latency, thermal design, I/O integration, and software optimization.

AI Performance



TOPS Range



AI Vision Computing Selection Guide

AI Vision Solutions by Performance Tiers

10~20 TOPS				Vision Sensing
				AI Camera, vision sensing, basic object detection, image capture & edge recognition
SQA-8D2	SQA-8B2	PHX-N2120-F500	VAI-MTL	
21~100 TOPS				Edge Vision Analytics
				Light edge inference, basic AOI, single-site video analytics, gateway AI
PHX-N1000 Series	EAC-10N	EAC-30N1	EAC-50N1	
101~200 TOPS				Mobile Vision AI
				AMR, AGV, mobile robots, multi-camera analytics, traffic and fleet vision analytics
EAR-30N3	EAC-50N3	EAC-30N3	QXe-900	
201~300 TOPS				Advanced Vision Fusion
				AI NVR, multi-sensor fusion, robotics vision, advanced AOI, real-time video analytics
EAC-70N	EAR-70N	eNVP-JAO-AI	PMD-40	
2000+ TOPS				Robotics Vision Intelligence
				Humanoid robots, robot dogs, next-gen robotics, large-scale visual inference, embodied AI
EAR-100T	EAC-100T			

EverFocus AI Vision Architecture

Architecture Layer

What It Enables

Decision Questions



01

Vision Sensing

AI Camera / GMSL /
IP Camera / USB Camera

Captures visual and sensor data from cameras and connected devices.



Vision Input ?

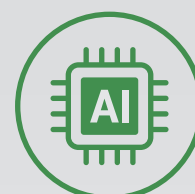
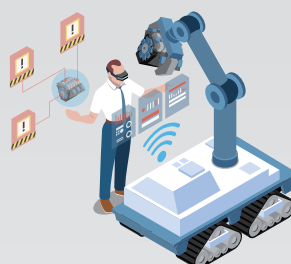


02

Edge AI Computing

EAC / EAR / QXe / IVS

Performs real-time AI inference and computing at the edge.



Real-Time AI ?

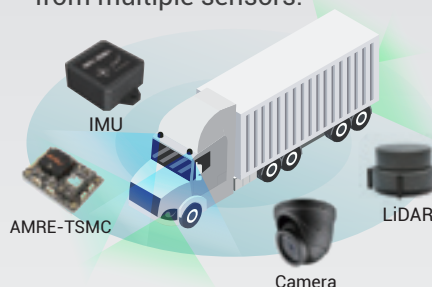


03

Synchronized Perception

AMRE-TSMC / Time Sync /
IMU / GNSS

Synchronizes and integrates data from multiple sensors.



Sensor Fusion?



04

Vision Intelligence Management

AI NVR / Video Analytics /
Fleet Vision Management

Analyzes events, records video, triggers alerts, and manages visual data.



AI Management ?



05

AI Vision Applications

Robotics / Manufacturing /
Transportation / Smart City

Maps AI Vision capabilities to real-world deployment scenarios.



Mobility?
Robotics Intelligence?

Choose Your AI Vision Tier



Solution 1

Vision Sensing & Edge Recognition

10~20 TOPS

Products

- SQA-8D2 Edge AI Camera
- SQA-8B2 Series Edge AI Camera
 - PHX-N2120-F500
 - VAI-MTL
 - AMB-2G50
 - AMB-2G70

Key Points

- AI Camera
- Vision Sensing
- Basic Object Detection
- Image Capture
- Edge Recognition

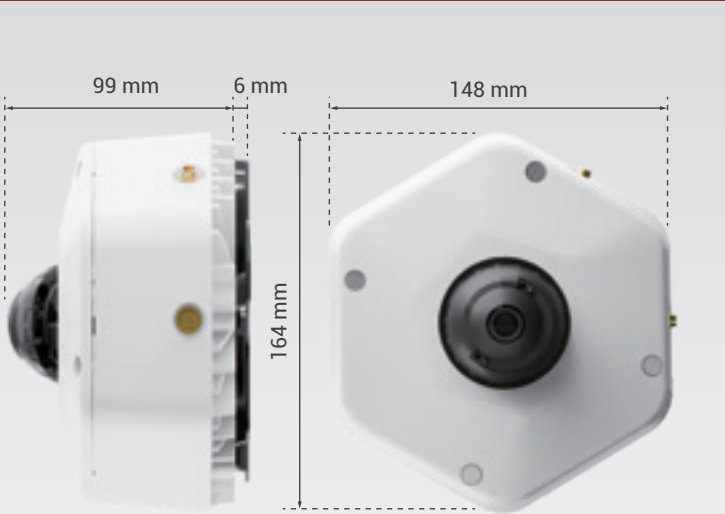
Application Scenarios

- Entrance Detection
- Object Counting
- Simple Event Detection
- Field-side AI Sensing
- Smart retail / Facility Monitoring



SQA-8D2 Edge AI Camera

High AI Camera,
Qualcomm® Dragonwing™



Features

- 4K resolution 8 MP image with excellent low-light performance.
- Powered by Qualcomm® QCS6490.
- Day & Night version with STARVIS 2 Technology
- Include microSD slot for local storage.
- With IK10 / IP66 protection rate
- Support remote HW / SW reset and OTA
- Supports optional WiFi and Vantage AI model

Application

- Security cameras, people and environmental surveillance.
- Built for Surveillance and Factory application in All Light Conditions.

Product Specifications

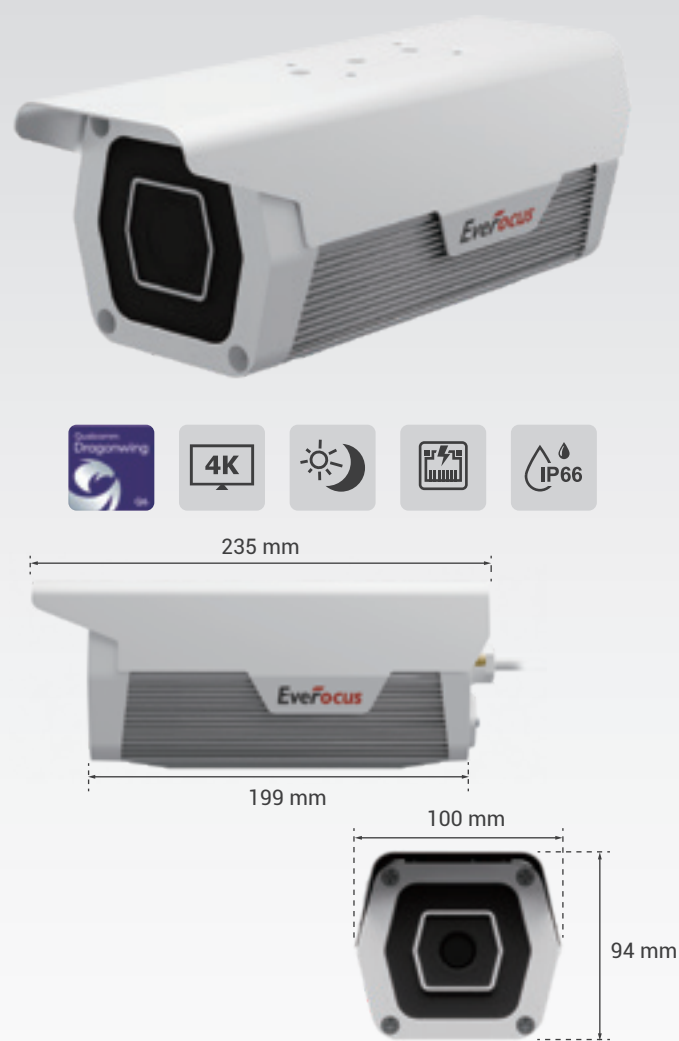
Camera	
Image Sensor	SONY IMX678, Starvis 2
Pickup Device / Shutter	1/1.8", Rolling shutter
Resolution	4K (8MP) 3840 (H) x 2160 (V)
Frame rate (max.)	Up to 30 fps
Lens Type	Fixed lens
Aperture (D/f)	F1.6
Focal Length	4.26mm
Field of View (H, V, D)	110.5°(H), 59°(V), 132.6°(D)
Sensor/Module Interface	MIPI 4-lane
Color/Mono	Color: 0.01 Lux (AGC ON, 30 IRE), B/W: 0.001 Lux (30 IRE), 0 Lux with IR illumination on
Day & Night	ICR switch actuator and build-in IR illuminators - RGB visible day mode, IR LED light (x4)
IR Wavelength & pick up range	850nm up to 30m
Video Enhancement	HDR, Digital-Overlap (DOL) HDR, Clear HDR, Super High Conversion Gain, high NIR sensitivity
Video Compression	H.265/H.264
ONVIF	Profile G, S, T, M supported, specification available at www.onvif.org
Audio	A MIC in

System Specifications

System	
GPU	Qualcomm® QCS6490 Adreno™ 643 @ Up to 812 MHz
CPU	8-core Qualcomm® Kryo™ 670 @ Up to 2.7 GHz
Memory	LPDDR4X 8GB + UFS2.x 128GB
Storage	1x MicroSD slot, SDHC/SDXC max. 1TB
Interfaces	
Card Slot	1x Micro SD Card Slot
USB (onboard)	1x USB Type-C for Config
Power Input	1x PoE (802.3bt), 1x 9V ~ 54V DC Power-input, Terminal Block
Power Button	1x Reset button
Network	
Ethernet	1x 2.5 Gbps with 802.3bt PoE PD, RJ45
Protocol	ONVIF, RTMP, RTSP
Optional	
Wireless	WiFi
Software & Algorithm	
OS	Qualcomm Linux ver.1.1 based BSP (kernel 6.6)
AI Model	Vantage inside (Optional) License plate recognition, Vehicle tracking & classification, Other per request.
Power Supply	
Power Requirements	PoE (802.3bt) / 9V ~ 54V DC
Power Consumption	12W(TBC)
Environmental and Mechanical	
Dimensions (W x D x H)	148 mm x 164 mm x 99 mm, with Bracket 105mm
Weight	1.8 kg (TBC)
Mounting/ Installation	1x M4 / 3x M6 Screw holes
Operating temp.	-20~50°C
Storage Temp.	-40~70°C
Storage Humidity.	5% ~ 95%, non-condensing
Protect Rate	IP66 / IK10 / NEMA 4(optional)
Certification	
Regulation	CE, FCC, Project Base: PSE, BSMI, UL...

SQA-8B2 Series Edge AI Camera

High AI Camera,
Qualcomm® Dragonwing™



Product Specifications

Camera	
Image Sensor	SONY IMX678, Starvis 2
Pickup Device / Shutter	1/1.8", Rolling shutter
Resolution	4K (8MP) 3840 (H) x 2160 (V)
Frame rate (max.)	Up to 30 fps
Lens Type	Fixed lens
Aperture (D/f')	F1.6
Focal Length	4.25mm
Field of View (H, V, D)	110°(H), 60°(V), 134°(D)
Sensor/Module Interface	MIPI 4-lane
Min. Illumination	Color: 0.01 Lux (AGC ON, 30 IRE), B/W: 0.001 Lux (30 IRE), 0 Lux with IR illumination on
Day & Night	ICR switch actuator and build-in IR illuminators - RGB visible day mode, IR LED light (x8)
IR Wavelength & pick up range	850nm up to 30m
Video Enhancement	HDR, Digital-Overlap (DOL) HDR, Clear HDR, Super High Conversion Gain, high NIR sensitivity
Video Compression	H.265/ H.264
ONVIF	Profile G, S, T, M supported, specification available at www.onvif.org
Audio	A MIC input (RCA female) / External SPK output (RCA female)

Features

- High quality 8MP image with extraordinary low-lightper formance.
- Powered by Qualcomm® QCS6490.
- Day & Night version with STARVIS 2 Technology.
- HDR, DOL HDR, Clear HDR, high NIR sensitivity
- Multiple I/O interface connections.
- Include both microSD, M.2 SSD slot for local storage.
- Max. 12 TOPS INT8 computing power.
- Supports optional WiFi and 5G, GPS (alternative).

Application

- Security cameras, people and environmental surveillance.
- Factory Automation, Machine vision and analytics on production lines.
- Traffic Intersection Monitoring and illegal vehicle capture.

System Specifications

System	
GPU	Qualcomm® QCS6490 Adreno™ 643 @ Up to 812 MHz
CPU	8-core Qualcomm® Kryo™ 670 @ Up to 2.7 GHz
Memory	LPDDR4X 8GB + UFS2.x 128GB
Storage	1x M.2 SSD M-Key slot support NVMe max. 2TB, 1x MicroSD slot, SDHC/SDXC max. 1TB
Interfaces	
Card Slot	1x Micro SD Card Slot, 1x M.2 2242 M-Key Slot
DIDO	2 in / 2 out
USB	1x USB Type-C for Config
Power Input	1x PoE (802.3bt), 1x 9V ~ 48V DC Power-input, Terminal Block
Power Button	1x Reset button
LED	1x dual-color LED (Power by DC, Power by PoE)
Network	
Ethernet	1x 2.5 Gbps with 802.3bt PoE PD, RJ45
Protocol	ONVIF, RTMP, RTSP
Optional	
Wireless	WiFi / 5G / GPS (alternative)
Software & Algorithm	
OS	Qualcomm Linux ver.1.1 based BSP (kernel 6.6)
AI Model	Vantage inside (Optional) License plate recognition, Vehicle tracking & classification, Other per request.
Power Supply	
Power Requirements	PoE (802.3bt) / 9V ~ 48V DC
Power Consumption	15W (TBC)
Environmental and Mechanical	
Dimensions (W x D x H)	100mm x 199mm x 94mm, with Outdoor Shield 235mm
Weight	1.8 kg (TBC)
Operating temp.	-20~60°C
Storage Temp.	-40~80°C
Storage Humidity.	5% ~ 95%, non-condensing
Protect Rate	IP66 / IK10 / NEMA 4X(optional)
Certification	
Regulation	CE, FCC Project Base: PSE, BSMI, UL...



Features

- Powered by NVIDIA® Jetson Orin™ Nano and NX
- Max. LPDDR5 16GB
- Include SONY IMX335 Image Seneor
- 5MP (2560x1920) Resolution
- Multiple I/O interface connections
- Wide operating temperature range -20°C to 70°C
- Pre-install AI Mode



Ordering Information

PN	Description
N2120	Nvidia, Jetson Orin Nano, 4GB
N2240	Nvidia, Jetson Orin Nano, 4GB
F500	Fixed Lens, 5MP, Rolling

Optional Accessories

Item	Description
128GB, M.2 2242	128GB, M.2 2242, PCIe Gen3x2, 3D TLC BiCS5, DRAM-less, PE: 3K
256GB, M.2 2242	256GB, M.2 2242, PCIe Gen3x2, 3D TLC BiCS5, DRAM-less, PE: 3K
256GB, M.2 2242	1TB, M.2 2242, PCIe Gen3x2, 3D TLC BiCS5, DRAM-less, PE: 3K
WiFi & BT module	WiFi & Bluetooth Module with Dual Antenna
Power Adapter	Adaptor,Input:AC 100-240V Output:DC 12V@5A, 60W

Camera lens Specifications

Rolling Shutter Camera	
Image Sensor	SONY IMX335
Pickup Device / Shutter	1/2.8" Rolling shutter
Resolution	5MP (2560x1920), CMOS
Lens	3.16mm, Fixed Lens, F1.8
Angle of View (H, V, D)	97.0°, 73.0°, 126.0°
Lens Type	Build
Shutter	Rolling
Pixel Size:	2.0um x 2.0um
Frame rate (max.)	30fps
Color/Mono	Color
Wide Dynamic Range	HDR(2T)

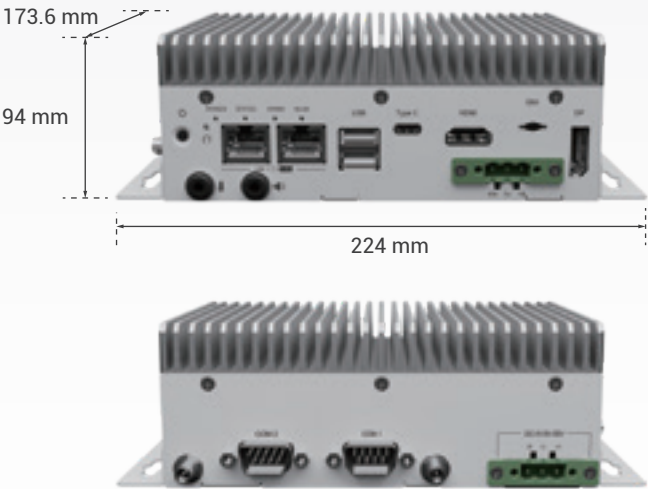
Specifications

System	
CPU	NVIDIA Jetson Orin™ NX NVIDIA Jetson Orin™ Nano
Storage	1x M.2 M-Key 2242 slot support NVMe
External Interfaces	
Ethernet	1x GbE, RJ45
Series	2x RS-232/485, Terminal Block
Digital I/O	N/A
Display	1x HDMI 2.0- Output
Audio	N/A
SD Card	N/A
USB	2x USB 3.2 Type-A
Power Input	2 pin Terminal Block
Power Button	1x Reset Button
LED	1x Power LED
Expansion	
M.2	E-key 2230 for Wifi
Software	
OS	Ubuntu: 22.04 JetPack 6 or Higher
Power Supply	
Power Requirements	DC 9 - 36V
Power Consumption	10–45W (TBC)
Environmental and Mechanical	
Dimensions (W x D x H)	95.2mm x 78.1mm x 71mm
Weight	0.6 kg
Mouting/Installation	Camera Ceiling Wall Mount
Operating temp.	-20~70°C with Airflow, with fan
Storage Temp.	-20~80°C
Storage Humidity.	5% ~ 95%, non-condensing
IP	N/A
Certification	
Regulation	Project Base: CE, FCC, UKCA, PSE, BSMI, UL



Features

- AI Ready Fanless in-vehicle system
- Intel® Core™ Ultra series
- Include NPU
- DDR5 5600MHz memory, up to 48GB
- 3 DisplayPorts, up to 4K resolution
- Multiple USB ports, up to 10Gbps data transfer
- Supports Intel® ESDQ and OpenVINO™ Toolkit
- Supports 2.5GbE LAN x 2 (Intel® TSN supported)
- 9V to 55V wide range DC power input (with ignition control)
- CE, FCC, UKCA, EN50155



Ordering Information

Part Number	Packing List
Intel® Core™ Ultra 7 165U AI Ready Vision Embedded System	1. VAI-MTL
Intel® Core™ Ultra 7 165U AI Ready Vision Embedded System w/ Capture	2. Screws Package
	3. Terminal Block
	4. Wall Mount

Optional Accessories

Part Number / Item
8GB DDR5 4800 SO-DIMM
16GB DDR5 4800 SO-DIMM
64GB, 2.5" SSD, SATA3, 3D TLC BiCS5, DRAM-less

Specifications

System	
Processor	Intel® Core™ Ultra 7 165U Processor (12 Cores)
NPU	Intel® AI Boost
Graphis	Intel® Graphics
Ethernet	Intel® I226
Memory	DDR5 5600MHz SO-DIMM x 1, up to 48GB
Storage	1 SATA III (6Gbps) with internal 2.5" SSD bracket M.2 Key M Socket (2280, PCIe 4.0 x4)
LED Indicators	Power, HDD, WWAN, WLAN
BIOS	AMI SPI 128Mbit
SD Card	N/A
USB	2x USB 3.2 Type-A
Operating System	Window 10 / 11/ Linux (by request)
Video	
Format	H.264 / H.265
Display	1 x HDMI 2.1 : Up to 4096x2304 @60Hz 1 x DisplayPort 1.4 : Up to 4096 x 2304 @60Hz 1 x DisplayPort 1.4 : Up to 3840 x 2160 @60Hz by USB Type-C
Capture	1 x HDMI Input Max Input Video Resolution 3840x2160P60 1 x HDMI Loop Max Loop Out Video Resolution 3840x2160P60 Video Format: RGB/YUY2/NV12 Audio Sampling Rate: 32/44.1/48KHz Color Depth: 10 bit
Recording	
Format	H.264 / H.265
Resolution	1920 x 1080 at 30fps (NTSC) / 25fps (PAL)
Interface	
Serial Port	2 x RS-232/422/485 (ESD 8KV)
USB	1 x USB 3.2 Gen 2x2 Type-C support max 20Gbps and DP 1.4 (5V/3A) 2 x USB 3.2 Gen 2 Type-A
Buttons	Power, Reset
Antenna	5 x Antenna holes
Ethernet	2 x 2.5 GbE (RJ-45)
Audio	1 x Line-out / 1 x Mic-in
Expansion Slot	1 x M.2 Key B Socket (3042/3052, PCIe x2/USB 3, default/USB 2) 1 x M.2 Key E Socket (2230, PCIe x1/USB 2) 1 x External Nano SIM Card Socket
Security	TPM 2.0
Other Function	N/A
General	
Power Supply	DC 9-55V (with ignition pin)
Dimensions (W x D x H)	150.4 x 106.2 x 57.0mm (without bracket)
Mounting	Wall Mount
Gross Weight	1.3kg
Operating Temp.	-40°C ~ 60°C / 0°C ~ 40°C (w/ Capture)
Storage Temp.	-40°C ~ 85°C
Storage Humidity	5%~95% (non-condensing); 95%@75°C
Shock	MIL-STD-810G
Vibration	MIL-STD-810G
Certification	CE, FCC, UKCA, EN50155, EN50121-3-2

AMB-2G50



Genio 520

▪ **Processing Power**

2x Arm Cortex-A78 @ 2.2GHz, 6x Arm Cortex-A55 @ 2.0

▪ **On Device AI**

Integrated 8th Gen NPU with up to 10 TOPS system AI performance.

▪ **Vision Capability**

Single ISP, up to 16MP or 6x FHD camera streams.

▪ **Display Flexibility**

One ultrawide 5K60 display or dual 2.5K60 displays.

▪ **Connectivity Options**

WiFi 6, 6E, WiFi 7, 5G RedCap, Bluetooth 5.3, Ethernet, and PCIe.

▪ **Software Support**

Android, Yocto Linux, and Ubuntu.

Specifications

MediaTek Genio 520	
CPU	2x Arm Cortex-A78 @ 2.2GHz + 6x Arm Cortex-A55 @ 2.0GHz
GPU	Arm Mali-G57 GPU
AI / NPU	MediaTek 8th Gen NPU, up to 10 TOPS
Vision / Camera	Up to 6x FHD camera streams / up to 16MP image input
Display	One 5K60 display or dual 2.5K60 displays
Memory	8GB LPDDR5
Connectivity	Ethernet, PCIe, Wi-Fi 6 / 6E / Wi-Fi 7, Bluetooth 5.3, optional 5G RedCap
Storage	128GB UFS or eMMC
Software	Ubuntu / Yocto / Android
AI Application Demo	Object detection, person detection, PPE detection, intrusion detection, smart security monitoring
Product Type	10 TOPS Edge AI Vision Platform for smart security, facility monitoring, and video analytics

AMB-2G70



Genio 720

▪ **Processing Power**

2x Arm Cortex-A78 @ 2.6GHz, 6x Arm Cortex-A55 @ 2.0

▪ **On Device AI**

Integrated 8th Gen NPU with up to 10 TOPS system AI performance.

▪ **Vision Capability**

Dual ISP, up to 32MP or dual 16MP cameras with 6x FHD MIPI virtual channels

▪ **Display Flexibility**

One ultrawide 5K60 display or dual 2.5K60 displays.

▪ **Connectivity Options**

WiFi 6, 6E, WiFi 7, 5G RedCap, Bluetooth 5.3, Ethernet, and PCIe.

▪ **Software Support**

Android, Yocto Linux, and Ubuntu.

Specifications

MediaTek Genio 720	
CPU	2x Arm Cortex-A78 @ 2.6GHz + 6x Arm Cortex-A55 @ 2.0GHz
GPU	Arm Mali-G57 GPU
AI / NPU	MediaTek 8th Gen NPU, up to 10 TOPS
Vision / Camera	Dual ISP, up to 32MP image input or dual 16MP cameras with 6x FHD MIPI virtual channels
Display	One 5K60 display or dual 2.5K60 displays
Memory	8GB LPDDR5
Connectivity	Ethernet, PCIe, Wi-Fi 6 / 6E / Wi-Fi 7, Bluetooth 5.3, optional 5G RedCap
Storage	128GB UFS or eMMC
Software	Ubuntu / Yocto / Android
AI Application Demo	Multi-camera object detection, person detection, PPE detection, intrusion detection, access control, smart security monitoring, smart building analytics
Product Type	10 TOPS Advanced Edge AI Vision Platform for multi-camera video analytics, smart security, and facility monitoring

Solution 2

Edge Vision Analytics

21~100 TOPS

Products

- EAC-10N1
- EAC-10N3
- EAC-30N1
- EAC-50N1
- SNC-8DFR
- SNA-5BVG
- SNA-8BFR
- PHX-N1000 Series

Key Points

- Light Edge Inference
 - Basic AOI
- Single-Site Video Analytics
 - Gateway AI

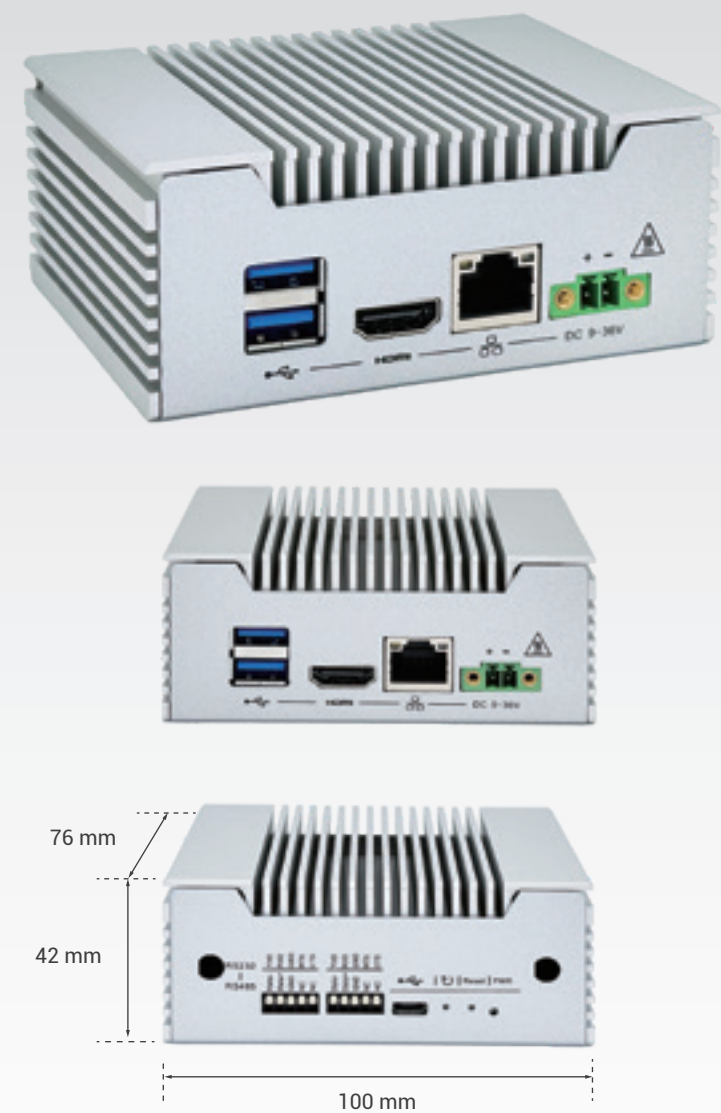
Application Scenarios

- Small Factory Inspection
- Single Production Line Monitoring
 - Equipment-Side AI Box
- Compact Edge Deployment



EAC-10N1

Ultra Compact Fanless Embedded Edge AI System with NVIDIA® Jetson Orin Nano™ Super Mode



Ordering Information

Packing List
1 x EAC-10N1 BOX
1 x 2-pin Terminal Block Connector

Part Number	
2EAC-10N1-0305-01	NVIDIA® Jetson Orin Nano™, 4 GB, 128 GB NVMe, 9 ~ 36 VDC , JP6.0
2EAC-10N1-0405-01	NVIDIA® Jetson Orin Nano™, 8 GB, 128 GB NVMe, 9 ~ 36 VDC , JP6.0
2EAC-10N1-0305-03	NVIDIA® Jetson Orin Nano™, 4 GB, 128 GB NVMe, 9 ~ 36 VDC , JP6.2 , Big
2EAC-10N1-0405-03	NVIDIA® Jetson Orin Nano™, 8 GB, 128 GB NVMe, 9 ~ 36 VDC , JP6.2 , Big

Optional Accessories

Part Number / Item	
396CEAC1001	Adaptor IN:100-240V OUT:DC12V5A 60W 2Pin
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US

Features

- Powered by NVIDIA® Jetson Orin Nano™
- Support Jetson Orin Nano™ Super Mode
- Multiple I/O interface connections for data collection
- GbE LAN, USB 3.2, Serial Ports, HDMI
- Wide range power input 9 ~ 36 VDC
- Compact, lightweight and conveniently portable AI BOX

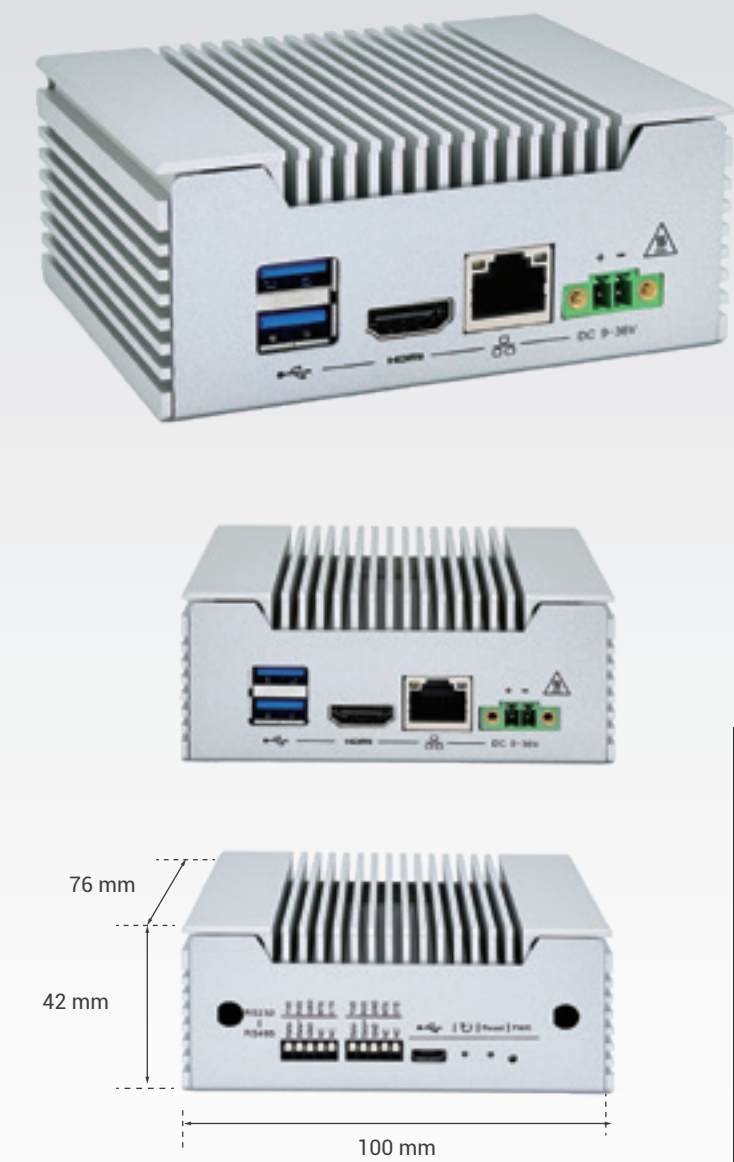


Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin Nano™ 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	Onboard 4/8 GB 64/128-bit LPDDR5
Storage	1 x M.2 M-Key 2242, support NVMe
Real time clock	Yes
Indicators	1 x LED indicator (Power)
Wireless	N/A
Operating System	Linux (NVIDIA JetPack 6.0 and above)
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	Max. 65W(TBC)
Environmental and Mechanical	
Dimension	100 x 76 x 42 mm
Weight	0.3 kg
Mouting/Installation	Din Rail
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning
Interface	
Serial Port	2 x RS-232/485 switchable
CAN Bus	N/A
Ethernet	1 x GbE LAN, RJ45
USB	2 x USB 3.2 Gen1, Type-A
Display	1 x HDMI 2.0-Out
Power Connector	2-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x MIPI CSI-2 with FPC connector
Other Interface	N/A

EAC-10N3

Ultra Compact Fanless Embedded Edge AI System
with NVIDIA® Jetson Orin™ NX



Features

- Powered by NVIDIA® Jetson Orin™ NX
- Multiple I/O interface connections for data collection
- GbE LAN, USB 3.2, Series Ports, HDMI
- Wide range power input 9 ~ 36 VDC
- Compact, lightweight and conveniently portable AI BOX



Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin™ NX 6/8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	Onboard 8/16 GB 128-bit LPDDR5
Storage	1 x M.2 M-Key 2242, support NVMe
Real time clock	Yes
Indicators	1 x LED indicator (Power)
Wireless	N/A
Operating System	Linux (NVIDIA JetPack 6.0)
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	Max. 40W(TBC)
Environmental and Mechanical	
Dimension	100 x 76 x 42 mm
Weight	0.3 kg
Mouting/Installation	Din Rail
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning
Interface	
Serial Port	2 x RS-232/485 switchable
CAN Bus	N/A
Ethernet	1 x GbE LAN, RJ45
USB	2 x USB 3.2 Gen1, Type-A
Display	1 x HDMI 2.0-Out
Power Connector	2-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x MIPI CSI-2 with FPC connector

Ordering Information

Part Number	
2EAC-10N3-0405-01	NVIDIA® Jetson Orin™ NX, 8 GB, 128 GB NVMe, 9 ~ 36 VDC , JP6.0
2EAC-10N3-0505-01	NVIDIA® Jetson Orin™ NX, 16 GB, 128 GB NVMe, 9 ~ 36 VDC , JP6.0
2EAC-10N3-0405-03	NVIDIA® Jetson Orin™ NX, 8 GB, 128 GB NVMe, 9 ~ 36 VDC, JP6.0 , Big
2EAC-10N3-0505-03	NVIDIA® Jetson Orin™ NX, 16 GB, 128 GB NVMe, 9 ~ 36 VDC , JP6.0 , Big

Optional Accessories

Part Number / Item	
396CEAC1001	Adaptor IN:100-240V OUT:DC12V5A 60W 2Pin
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US

EAC-30N1

Compact Fanless Embedded Edge AI Computer with
NVIDIA® Jetson Orin Nano™ Super Mode



Features

- Powered by NVIDIA® Jetson Orin Nano™
- Support Jetson Orin Nano™ Super Mode
- Multiple I/O interface connections for data collection
- GbE LAN, USB 3.2, Serial Ports, HDMI
- Wide range power input 9 ~ 36 VDC
- Compact, lightweight and conveniently portable AI BOX



Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin Nano™ 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	Onboard 4/8 GB 64/128-bit LPDDR5
Storage	1 x M.2 M-Key 2242, support NVMe
Real time clock	Yes
Indicators	1 x LED indicator (Power)
Operating System	Linux (NVIDIA JetPack 5.1.2/6.0/6.2)
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	Max. 65 W (with Fan)
Environmental and Mechanical	
Dimension	136 x 110 x 57 mm (5.35" x 4.33" x 2.24")
Weight	2.1 kg
Mouting/Installation	Din Rail, Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC, BSMI
Carrier	Planning
Interface	
Serial Port	1 x RS-485 with 5-pin Terminal Block
CAN Bus	1 x CAN-FD with 5-pin Terminal Block
Ethernet	2 x GbE LAN, RJ45
USB	4 x USB 3.1, Type-A
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x M.2 E-Key 2230 / 1 x M.2 B-Key 3052
SIM	1 x SIM card slot
Button	Power, Reset
Antenna	5 x Antenna

Ordering Information

Packing List	
1 x EAC-30N1 BOX	
1 x 3-pin Terminal Block Connector	
1 x 5-pin Terminal Block Connector	
1 x Wall Mount	

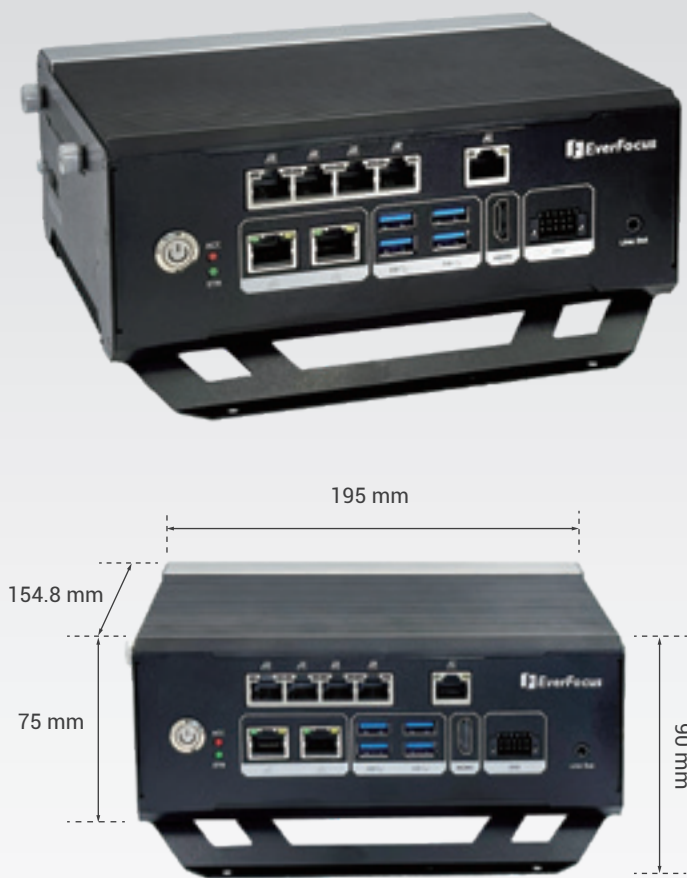
Part Number	
2ENRL00DAP0002R	NVIDIA® Jetson Orin Nano™, 4 GB, 9 ~ 36 VDC
2ENRL00DAP0003R	NVIDIA® Jetson Orin Nano™, 8 GB, 9 ~ 36 VDC
2ENVPJONAIF2500-01	NVIDIA® Jetson Orin Nano™, 4 GB, 128 GB NVMe, 9 ~ 36 VDC
2ENVPJONAIF3500-01	NVIDIA® Jetson Orin Nano™, 8 GB, 128 GB NVMe, 9 ~ 36 VDC

Optional Accessories

Part Number / Item	
396CEAC3001	Adaptor (In: 100 ~ 240 VDC/Out: 12 VDC 5A 60W 3Pin)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
4710EM060KG5301	Quectel EM060K-GL 4G LTE, M.2 3042
4710RM520NG5301	Quectel RM520N-GL 5G NR, M.2 3052
4FP-MD00000	EnLi ENL-R8852BE, Wi-Fi 6, BT 5.2, M.2 2230

EAC-50N1

Fanless Embedded Edge AI System with
NVIDIA® Jetson Orin Nano™ Super Mode



Features

- Powered by NVIDIA® Jetson Orin Nano™
- Support Jetson Orin Nano™ Super Mode
- Onboard 4/8 GB 64/128-bit LPDDR5
- Multiple I/O interface connections for data collection
- GbE LAN with PD/PSE, USB 3.1, Serial Port, CAN-FD
- Wide operating temperature -20 ~ 60 °C



Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin Nano™ 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	Onboard 4/8 GB 64/128-bit LPDDR5
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	2 x LED indicator (Power/Storage)
Wireless	1 x M.2 E-Key 2230 / 1 x M.2 B-Key 3052
Operating System	Linux (NVIDIA JetPack 6.2)
Power Supply	
Power Requirement	9 ~ 36 VDC,with ACC function
Power Consumption	135W
Environmental and Mechanical	
Dimension	195 x 154.8 x 75 mm (7.67" x 6.09" x 2.95")
Weight	2.9 kg
Mouting/Installation	Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning
Interface	
Serial Port	2 x RS232/RS422/485 DB9
CAN Bus	1 x CAN-FD DB9
Ethernet	7 x Gbe RJ45 Option A (PD Mode): 1 x GbE PD (60W) 6 x Standard GbE Option B (PSE Mode): 1 x GbE + 1 x GbE PSE (Max. 30W) 4 x GbE PSE (Max. 15W/port) 1 x Standard GbE
USB	4 x USB 3.1, Type-A
DI/DO	8 x Alarm I/O
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x Nano SIM card slot
Antenna	5 x External Antenna holes
Audio	1 x Line-out
Other Interface	Reset button

Ordering Information

Packing List	
1 x EAC-50N1 BOX	
1 x 3-pin Terminal Block Connector	
1 x 10-pin Terminal Block Connector	
1 x Wall Mount	

Part Number	
EAC-50N1-00-203N00/ 2EAC-50N1-0300-01	NVIDIA® Jetson Orin Nano™, 4 GB, 9 ~ 36 VDC
EAC-50N1-00-204N00/ 2EAC-50N1-0400-01	NVIDIA® Jetson Orin Nano™, 8 GB, 9 ~ 36 VDC
EAC-50N1-00-203N05/ 2EAC-50N1-0305-01	NVIDIA® Jetson Orin Nano™, 4 GB, 128 GB NVMe, 9 ~ 36 VDC
EAC-50N1-00-204N05/ 2EAC-50N1-0405-01	NVIDIA® Jetson Orin Nano™, 8 GB, 128 GB NVMe, 9 ~ 36 VDC

Optional Accessories

Part Number / Item	
4B01XUD12060AS3	Adapter (In:100 ~ 240 V/Out: 12 VDC 5A 60W)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
4710EM060KG5301	Quectel EM060K-GL 4G LTE, M.2 3042
4710RM520NG5301	Quectel RM520N-GL 5G NR, M.2 3052
4FP-MD00000	EnLi ENL-R8852BE Wi-Fi 6 BT 5.2 M.2 2230

SNC-8DFR(Preliminary)

Superb AI Camera,
NVIDIA® Jetson Orin™



Features

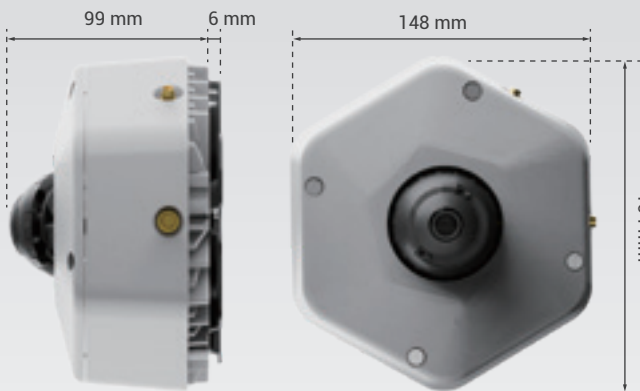
- 8MP image with excellent low-light performance
- Powered by NVIDIA® Jetson Orin™ Nano, 20~40 TOPS, Super kit is up to 34~67 TOPS
- Day & Night version with STARVIS 2 Technology
- Include microSD slot for local storage
- With IK10 / IP66 protection rate
- Support remote HW / SW reset and OTA
- Supports optional WiFi

Application

- People, environment and ANPR, PPE detection.
- Built for Surveillance and Factory application in All Light Conditions.

Product Specifications

Camera	
Image Sensor	SONY IMX678, Starvis 2
Pickup Device / Shutter	1/1.8", Rolling shutter
Resolution	4K (8MP) 3840 (H) x 2160 (V)
Frame rate (max.)	Up to 30 fps
Lens Type	Fixed lens
Aperture (D/f')	F1.6
Focal Length	4.26mm
Field of View (H, V, D)	110.5°(H), 59°(V), 132.6°(D)
Sensor/Module Interface	MIPI 4-lane
Color/Mono	Color: 0.01 Lux (AGC ON, 30 IRE), B/W: 0.001 Lux (30 IRE),0 Lux with IR illumination on
Day & Night	ICR switch actuator and build-in IR illuminators - RGB visible day mode, IR LED light (x4)
IR Wavelength & pick up range	850nm up to 30m
Video Enhancement	HDR, DOL HDR, Clear HDR, Super High Conversion Gain, high NIR sensitivity
Video Encode / Decode (Orin Nano)	Encode: 1080p30 supported by 1-2 CPU cores; Decode: 1x 4K60 (H.265), 2x 4K30 (H.265), 5x 1080p60 (H.265), 11x 1080p30 (H.265)
ONVIF	Profile G, S, T, M supported



System Specifications

System (Jetson Orin Nano 8GB)	
GPU	NVIDIA Jetson Orin™ Nano Ampere architecture with 1024 CUDA cores and 32 tensor cores
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
Memory	8GB 128-bit LPDDR5 68GB/s
Storage	1x MicroSD slot, SDHC/SDXC max. 1TB
Interfaces	
Card Slot	1x Micro SD Card Slot
USB (onboard)	1x USB Type-C for Config
Display	1x HDMI port
Audio	A MIC in
Power Input	1x GbE with IEEE 802.3bt (PoE++), 1x 9V~54VDC Power-input, Terminal Block
Power Button	1x Reset button, 1x Power On key
Network	
Ethernet	1x GbE with IEEE 802.3bt (PoE++), RJ45
Protocol	ONVIF(Profile G, S, T, M), RTMP, RTSP
Optional	
Wireless	802.11a/b/g/n/ac wireless
Software & Algorithm	
OS	Jetson Linux / Ubuntu
SDK/Utility	NVIDIA JetPack SDK
AI Model	NVIDIA Jetson provides a complete edge AI platform for building, deploying, and scaling robotics, humanoid, vision AI, and agentic applications.
Power Supply	
Power Requirements	GbE with IEEE 802.3bt (PoE++) / DC 9V~54V
Power Consumption	TBC
Environmental and Mechanical	
Dimensions (W x D x H)	148 mm x 164 mm x 99 mm, with Bracket 105mm
Weight	1.8 kg (TBC)
Mounting/ Installation	1x M4 / 3x M6 Screw holes
Operating temp.	-20~50°C
Storage Temp.	-40~70°C
Storage Humidity.	5% ~ 95%, non-condensing
Protect Rate	IP66 / IK10
Certification	
Regulation	CE, FCC, Project Base: PSE, BSMI, UL...

SNA-5BVG(Preliminary)

Superb AI Camera,
NVIDIA® Jetson Orin™



Product Specifications

Camera	
Image Sensor	STMicroelectronics VD1943, RGB-NIR
Pickup Device / Shutter	1/2.5", Global shutter
Resolution	5MP 2560 (H) x 1920 (V)
Frame rate (max.)	Up to 30 fps
Lens Type	Vari focal lens
Aperture (D/f')	F1.86 (W) ~ F3.32(T)
Focal Length	3.53mm - 9.85mm
Field of View (H, V, D)	Wide: 102.7°(H) x 76.4°(V) x 142.2°(D), Tele: 33.6°(H) x 26.0°(V) x 42.5°(D)
Sensor/Module Interface	MIPI 4-lane
Min. Illumination	Color: 0.05 Lux (noise reduction, 30 IRE), B/W: 0.005 Lux (30 IRE), 0.0 Lux with IR strobe illumination on
Day & Night	Dual and single exposure modes with separated controls of RGB pixels and NIR pixels, IR strobe LED under low light (x8)
IR Wavelength & pick up range	850nm up to 20 m (object material and type classification) /16 m (ANPR)
Video Enhancement	Automatic dark calibration, Integrated noise reduction feature, Dynamic defective pixel correction, Embedded Bayer reconstruction with NIR depollution, Embedded NIR smart upscale to full resolution monochrome output
Video Encode / Decode (Orin NX)	Encode: H.265 (HEVC), H.264, AV1; Decode: H.265 (HEVC), H.264, VP9, AV1 / 1x 8K30 (H.265), 2x 4K60 (H.265), 4x 4K30 (H.265), 9x 1080p60 (H.265), 18x 1080p30 (H.265)
ONVIF	Profile G, S, T, M supported
Audio	A MIC input (RCA female) / External SPK output (RCA female)

Features

- 5MP image with excellent low-light performance
- Powered by NVIDIA® Jetson Orin™ Nano and NX, 20~100 TOPS, Super mode is up to 34~157 TOPS
- Day & Night version with STMicroelectronics VD1943 RGB-NIR cutting-edge Technology
- Multiple I/O interface connections
- Include microSD slot for local storage
- With IK10 / IP66 protection rate
- Supports optional WiFi and 5G, GPS (alternative)

Application

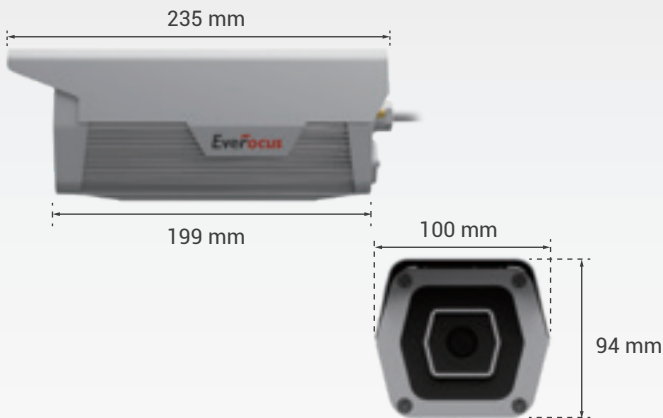
- People, environment and ANPR, PPE detection
- Built for Surveillance and Factory application in All Light Conditions

System Specifications

System (Jetson Orin NX 16GB)	
GPU	NVIDIA Jetson Orin™ NX Ampere architecture with 1024 CUDA cores and 32 tensor cores
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	16GB 128-bit LPDDR5 102GB/s
Storage	1x MicroSD slot, SDHC/SDXC max. 1TB
Interfaces	
Card Slot	1x Micro SD Card Slot
IO	1x USB Type-C for Config, 1x HDMI port, DIDO 2 in / 2 out
LED	1x dual-color LED (Power by DC, Power by PoE)
Power Input	1x GbE with IEEE 802.3bt (PoE++), 1x 9V ~ 48V DC Power-input, Terminal Block
Power Button	1x Reset button, 1x Power On key
Network	
Ethernet	1x GbE with IEEE 802.3bt (PoE++), RJ45
Protocol	ONVIF(Profile G, S, T, M), RTMP, RTSP
Optional	
Wireless	802.11a/b/g/n/ac wireless; 5G / GPS (alternative)
Software & Algorithm	
OS	Jetson Linux / Ubuntu
SDK/ Utility	NVIDIA JetPack SDK
AI Model	NVIDIA Jetson provides a complete edge AI platform for building, deploying, and scaling robotics, humanoid, vision AI, and agentic applications.
Power Supply	
Power Requirements	GbE with IEEE 802.3bt (PoE++) / DC 9V ~ 48V
Power Consumption	(TBC)
Environmental and Mechanical	
Dimensions (W x D x H)	100mm x 249mm x 94mm, with Outdoor Shield 285mm
Weight	2.2 kg (TBC)
Mounting/ Installation	1/4-20 UNC Screw holes
Operating temp.	-20~50°C
Storage Temp.	-40~70°C
Storage Humidity.	5% ~ 95%, non-condensing
Protect Rate	IP66 / IK10
Certification	
Regulation	CE, FCC Project Base: PSE, BSMI, UL...

SNA-8BFR(Preliminary)

Superb AI Camera,
NVIDIA® Jetson Orin™



Product Specifications

Camera	
Image Sensor	SONY IMX678, Starvis 2
Pickup Device / Shutter	1/1.8", Rolling shutter
Resolution	4K (8MP) 3840 (H) x 2160 (V)
Frame rate (max.)	Up to 30 fps
Lens Type	Fixed lens
Aperture (D/f')	F2.0
Focal Length	4.4mm
Field of View (H, V, D)	83.8°(H), 52.8°(V), 93°(D)
Sensor/Module Interface	MIPI 4-lane
Min. Illumination	Color: 0.01 Lux (AGC ON, 30 IRE), B/W: 0.001 Lux (30 IRE), 0 Lux with IR illumination on
Day & Night	ICR switch actuator and build-in IR illuminators - RGB visible day mode, IR LED light (x8)
IR Wavelength & pick up range	850nm up to 60m
Video Enhancement	HDR, DOL HDR, Clear HDR, Super High Conversion Gain, high NIR sensitivity
Video Encode / Decode (Orin NX)	Encode: H.265 (HEVC), H.264, AV1; Decode: H.265 (HEVC), H.264, VP9, AV1 / 1x 8K30 (H.265), 2x 4K60 (H.265), 4x 4K30 (H.265), 9x 1080p60 (H.265), 18x 1080p30 (H.265)
ONVIF	Profile G, S, T, M supported
Audio	A MIC input (RCA female) / External SPK output (RCA female)

Features

- 5MP image with excellent low-light performance
- Powered by NVIDIA® Jetson Orin™ Nano and NX, 20~100 TOPS, Super mode is up to 34~157 TOPS
- Day & Night version with STARVIS 2 Technology
- HDR, DOL HDR, Clear HDR, high NIR sensitivity
- Multiple I/O interface connections
- Include microSD slot for local storage
- With IK10 / IP66 protection rate
- Supports optional WiFi and 5G, GPS (alternative)

Application

- People, environment and ANPR, PPE detection
- Built for Surveillance and Factory application in All Light Conditions

System Specifications

System (Jetson Orin NX 16GB)	
GPU	NVIDIA Jetson Orin™ NX Ampere architecture with 1024 CUDA cores and 32 tensor cores
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	16GB 128-bit LPDDR5 102GB/s
Storage	1x MicroSD slot, SDHC/SDXC max. 1TB
Interfaces	
Card Slot	1x Micro SD Card Slot
IO	1x USB Type-C for Config, 1x HDMI port, DIDO 2 in / 2 out
LED	1x dual-color LED (Power by DC, Power by PoE)
Power Input	1x GbE with IEEE 802.3bt (PoE++), 1x 9V ~ 48V DC Power-input, Terminal Block
Power Button	1x Reset button, 1x Power On key
Network	
Ethernet	1x GbE with IEEE 802.3bt (PoE++), RJ45
Protocol	ONVIF(Profile G, S, T, M), RTMP, RTSP
Optional	
Wireless	802.11a/b/g/n/ac wireless; 5G / GPS (alternative)
Software & Algorithm	
OS	Jetson Linux / Ubuntu
SDK/ Utility	NVIDIA JetPack SDK
AI Model	NVIDIA Jetson provides a complete edge AI platform for building, deploying, and scaling robotics, humanoid, vision AI, and agentic applications.
Power Supply	
Power Requirements	GbE with IEEE 802.3bt (PoE++) / DC 9V ~ 48V
Power Consumption	(TBC)
Environmental and Mechanical	
Dimensions (W x D x H)	100mm x 199mm x 94mm, with Outdoor Shield 235mm
Weight	2.2 kg (TBC)
Mounting/ Installation	1/4-20 UNC Screw holes
Operating temp.	-20~50°C
Storage Temp.	-40~70°C
Storage Humidity.	5% ~ 95%, non-condensing
Protect Rate	IP66 / IK10
Certification	
Regulation	CE, FCC Project Base: PSE, BSMI, UL...

SNA-8BFR(Preliminary)

Superb AI Camera,
NVIDIA® Jetson Orin™



Product Specifications

Camera	
Image Sensor	SONY IMX678, Starvis 2
Pickup Device / Shutter	1/1.8", Rolling shutter
Resolution	4K (8MP) 3840 (H) x 2160 (V)
Frame rate (max.)	Up to 30 fps
Lens Type	Fixed lens
Aperture (D/f)	F1.6
Focal Length	4.25mm
Field of View (H, V, D)	110°(H), 60°(V), 134°(D)
Sensor/Module Interface	MIPI 4-lane
Min. Illumination	Color: 0.01 Lux (AGC ON, 30 IRE), B/W: 0.001 Lux (30 IRE), 0 Lux with IR illumination on
Day & Night	ICR switch actuator and build-in IR illuminators - RGB visible day mode, IR LED light (x8)
IR Wavelength & pick up range	850nm up to 30m
Video Enhancement	HDR, DOL HDR, Clear HDR, Super High Conversion Gain, high NIR sensitivity
Video Encode / Decode (Orin NX)	Encode: H.265 (HEVC), H.264, AV1; Decode: H.265 (HEVC), H.264, VP9, AV1 / 1x 8K30 (H.265), 2x 4K60 (H.265), 4x 4K30 (H.265), 9x 1080p60 (H.265), 18x 1080p30 (H.265)
ONVIF	Profile G, S, T, M supported
Audio	A MIC input (RCA female) / External SPK output (RCA female)

Features

- 5MP image with excellent low-light performance
- Powered by NVIDIA® Jetson Orin™ Nano and NX, 20~100 TOPS, Super mode is up to 34~157 TOPS
- Day & Night version with STARVIS 2 Technology
- HDR, DOL HDR, Clear HDR, high NIR sensitivity
- Multiple I/O interface connections
- Include microSD slot for local storage
- With IK10 / IP66 protection rate
- Supports optional WiFi and 5G, GPS (alternative)

Application

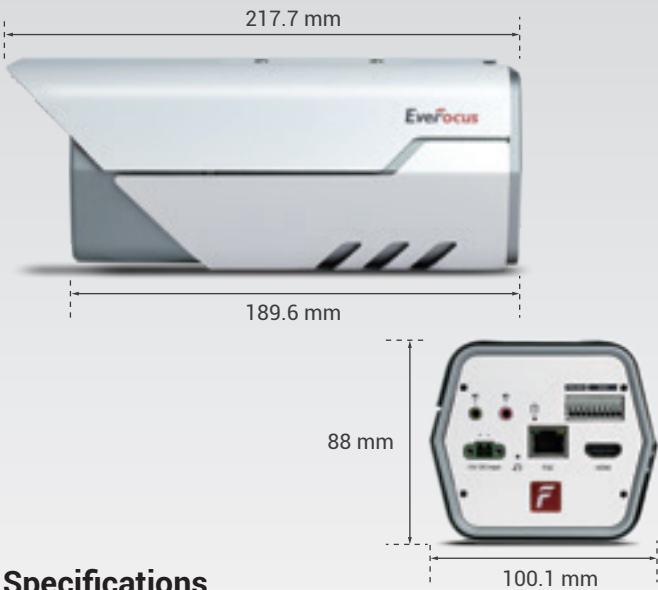
- People, environment and ANPR, PPE detection
- Built for Surveillance and Factory application in All Light Conditions

System Specifications

System (Jetson Orin NX 16GB)	
GPU	NVIDIA Jetson Orin™ NX Ampere architecture with 1024 CUDA cores and 32 tensor cores
CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	16GB 128-bit LPDDR5 102GB/s
Storage	1x MicroSD slot, SDHC/SDXC max. 1TB
Interfaces	
Card Slot	1x Micro SD Card Slot
IO	1x USB Type-C for Config, 1x HDMI port, DIDO 2 in / 2 out
LED	1x dual-color LED (Power by DC, Power by PoE)
Power Input	1x GbE with IEEE 802.3bt (PoE++), 1x 9V ~ 48V DC Power-input, Terminal Block
Power Button	1x Reset button, 1x Power On key
Network	
Ethernet	1x GbE with IEEE 802.3bt (PoE++), RJ45
Protocol	ONVIF(Profile G, S, T, M), RTMP, RTSP
Optional	
Wireless	802.11a/b/g/n/ac wireless; 5G / GPS (alternative)
Software & Algorithm	
OS	Jetson Linux / Ubuntu
SDK/ Utility	NVIDIA JetPack SDK
AI Model	NVIDIA Jetson provides a complete edge AI platform for building, deploying, and scaling robotics, humanoid, vision AI, and agentic applications.
Power Supply	
Power Requirements	GbE with IEEE 802.3bt (PoE++) / DC 9V ~ 48V
Power Consumption	(TBC)
Environmental and Mechanical	
Dimensions (W x D x H)	100mm x 199mm x 94mm, with Outdoor Shield 235mm
Weight	2.2 kg (TBC)
Mounting/ Installation	1/4-20 UNC Screw holes
Operating temp.	-20~50°C
Storage Temp.	-40~70°C
Storage Humidity.	5% ~ 95%, non-condensing
Protect Rate	IP66 / IK10
Certification	
Regulation	CE, FCC Project Base: PSE, BSMI, UL...

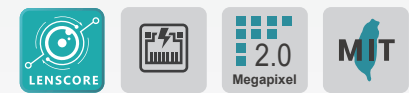
PHX-N1000 Series

Phoenix AI Camera, NVIDIA® Jetson Orin™



Features

- Flexible Modular AI Camera
- Powered by NVIDIA® Jetson Orin™ Nano and NX
- Max. LPDDR5 16GB
- Interchangeable lenses, including fixed focus and zoom lens options
- Multiple I/O interface connections
- Wide operating temperature range -20°C to 70°C
- Pre-install AI Mode



Camera lens Specifications

Rolling Shutter Camera		
Image Sensor	SONY IMX335	SONY IMX415
Pickup Device / Shutter	1/2.8" Rolling shutter	1/2.8", Rolling shutter
Resolution	5MP (2560x1920), CMOS	8MP/4K (3840x2160), CMOS
Lens	3.16mm, Fixed Lens, F1.8	1.74mm, Fixed Lens, F1.8
Angle of View (H, V, D)	97.0°, 73.0°, 126.0°	125.4°, 67°, 148.4°
Lens Type	Build	Build
Shutter	Rolling	Rolling
Pixel Size:	2.0um x 2.0um	1.45um x 1.45um
Frame rate (max.)	30fps	30fps
Color/Mono	Color	Color
Wide Dynamic Range	HDR(2T)	WDR(1T)

Global Shutter Camera		
Image Sensor	ONSEMI AR0234	ONSEMI AR0234
Pickup Device / Shutter	1/2.6", Global shutter	1/2.6", Global shutter
Resolution	2.3M(1920x1200), CMOS	2.3M(1920x1200), CMOS
Lens	3.48mm, Fixed Lens, F1.8	6mm-22mm, Zoom Lens
Angle of View (H, V, D)	113.4°, 95.8°, 59.6°	W:55.4°, 43.4°, 32.0° T:21.6°, 17.4°, 13.1°
Lens Type	Build	Build
Shutter	Global	Global
Pixel Size:	3.0um x 3.0um	3.0um x 3.0um
Frame rate (max.)	100fps	100fps
Color/Mono	Color	Color
Wide Dynamic Range	WDR(1T)	WDR(1T)

Specifications

System	
CPU	NVIDIA Jetson Orin™ NX NVIDIA Jetson Orin™ Nano
Storage	1x M.2 M-Key slot support NVMe 1x Micro SD Card Slot
External Interfaces	
Ethernet	1x GbE with 802.3 bt PoE PD, RJ45
Series	1x RS-485, Terminal Block
Digital I/O	2x Alarm Input, Terminal Block 2x Alarm Output, Terminal Block
Display	1x HDMI 2.0- Output
Audio	1x Mic-in / 1x Line-out
SD Card	1x Micro SD Card Slot
USB	1x USB 2.0 Type-C / 1x USB Type-C for Config
Power Input	1x 12VDC Power-input, Terminal Block
Power Button	1x Reset button
LED	1x dual-color LED (Power by DC, Power by PoE)
Expansion	1x M.2 E-key 2230
Software	
OS	Ubuntu: 22.04 / JetPack 6.0 or Higher
Software	Support Axsonsoft, Solomon-META By project requirements.
SDK/Utiliy	OBS Studio, Gucvview
Power Supply	
Power Requirements	PoE (IEEE 802.3bt) / DC 12V
Power Consumption	Max. 50W, config-dependent(TBC)
Environmental and Mechanical	
Dimensions (W x D x H)	100mm x 217.7mm x 88mm
Weight	1.6 kg
Mounting/Installation	1/4-20 UNC Screw holes
Operating temp.	-20~70°C with Airflow
Storage Temp.	-40~80°C
Storage Humidity.	5% ~ 95%, non-condensing
	N/A
Certification	
Regulation	CE, FCC / Project Base: PSE, BSMI, UL

Solution 3

Mobile Vision AI

101~200 TOPS

Products

- EAR-30N3
- EAC-30N3
- EAC-50N3
- QXe-900
- IVS-50P0

Key Points

- AMR / AGV
- Mobile Robot Vision
- Multi-Camera Analytics
- Transportation AI
- In-Vehicle AI Safety

Application Scenarios

- AMR Obstacle Detection & Route Monitoring
- Fleet Vision Analytics
- Vehicle Safety
- Warehouse Mobility
- Industrial Mobile Platforms



EAR-30N3

Robotic Controller with NVIDIA® Jetson Orin™ NX 8G/16G



Ordering Information

Packing List	
1 x EAR-30N3 AI BOX	
1 x 48pin CMC lockable connector	
1 x 32pin CMC lockable connector	

Part Number	
EAR-30N3-0400-01	EAR-30N3.Jetson Orin™ NX.9~32 VDC. LPDDR5 8GB.4 x GMSL2.(2+4) x HMTD
EAR-30N30500-01	EAR-30N3.Jetson Orin™ NX.9~32 VDC. LPDDR5 16GB.4 x GMSL2.(2+4) x HMTD

Optional Accessories

Part Number / Item	
4G LTE Module	4G LTE, Quectel EM060K-GL, M.2 B-key 3042 with Antenna
5G Module	5G LTE, Quectel RM520N-GL, M.2 3052 with Antenna
396DZ100002	Sony ISX031, 63.9°, DC 6 ~ 12V/6V, IP 67/IP 69K.oToBrite. oToCAM223-H61M
396DZ100003	Sony ISX031, 120.6°, DC 6 ~ 12V/6V, IP 67/IP 69K.oToBrite. oToCAM223-C120M

Features

- Powered by NVIDIA® Jetson Orin™ NX
- Provide M.2 M-key 2280 with PCIe Gen3 x4
- 3 x M12 X-coded GbE port
- 2 x CAN FD interface with isolation feature
- 4 x GMSL2 camera FAKRA Z code interface with frame sync
- HMTD Base-T1 Ethernet port for solid states
- 3D LiDAR x 4/8, Radar, and camera

Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin™ NX 8/6-core Arm® Cortex® -A78AE v8.2 64-bit CPU1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
Memory	Onboard 8/16 GB 128-bit LPDDR5
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	N/A
Operating System	Linux (NVIDIA JetPack 5.1.2/6.2)
Power Supply	
Power Requirement	9 ~ 32 VDC
Power Consumption	25 W
Environmental and Mechanical	
Dimension	186 x 140 x 91 mm (7.32" x 5.51" x 3.51")
Weight	1.8 kg
Mouting/Installation	N/A
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning
Front Panel Interface	
Ethernet	3 x M12 X-coded GbE
Display	1 x HDMI 2.0
USB	4 x USB 3.2 Gen1, Type-A
GPS	1 x FAKRA C code (Optional, requires GPS/GNSS module)
Wi-Fi	2 x FAKRA Z code (Optional, requires Wi-Fi module)
Side Panel Interface	
48-pin CMC lockable connector	4pin 9 ~ 32 VDC ignition power input 1 x ACC trigger input for power on 1 x Microphone input 2 x Speaker output with 10W amplifier 2 x CAN with isolation 1 x DO 2 x RS232 1 x Recovery, 1 x Reset, 1 x PWR_BTN
32-pin CMC lockable connector	8 x PPS+TxD syncout for external sensor 4 x 12V power output for external senso
Rear Panel Interface	
GMSL Camera	4 x FAKRA Z code with frame sync
GSM Radio	4 x FAKRA D code for 4G/5G (Optional)
HMTD	(2+4) x 1G Base-T1 Ethernet
OTG USB	1 x micro USB for recovery BSP

EAC-30N3

Compact Fanless Embedded Edge AI Computer with NVIDIA® Jetson Orin™ NX



Features

- Powered by NVIDIA® Jetson Orin™ NX
- Onboard 8/16 GB 128-bit LPDDR5
- Multiple I/O interface connections for data collection
- GbE LAN, USB 3.2, Serial Port, CAN-FD
- Wide operating temperature -20 ~ 60°C



Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin™ NX 6/8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	Onboard 8/16 GB 128-bit LPDDR5
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	1 x LED indicator (Power)
Operating System	Linux (NVIDIA JetPack 5.1.2/6.0)
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	Max. 25 W (with Fan)
Environmental and Mechanical	
Dimension	136 x 110 x 57 mm (5.35" x 4.33" x 2.24")
Weight	2.1 kg
Mouting/Installation	Din Rail, Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC, BSMI
Carrier	Planning
Interface	
Serial Port	1 x RS-485 with 5-pin Terminal Block
CAN Bus	1 x CAN-FD with 5-pin Terminal Block
Ethernet	2 x GbE LAN, RJ45
USB	4 x USB 3.2, Type-A
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x M.2 E-Key 2230 / 1 x M.2 B-Key 3052
SIM	1 x SIM card slot
Button	Power, Reset
Antenna	5 x Antenna

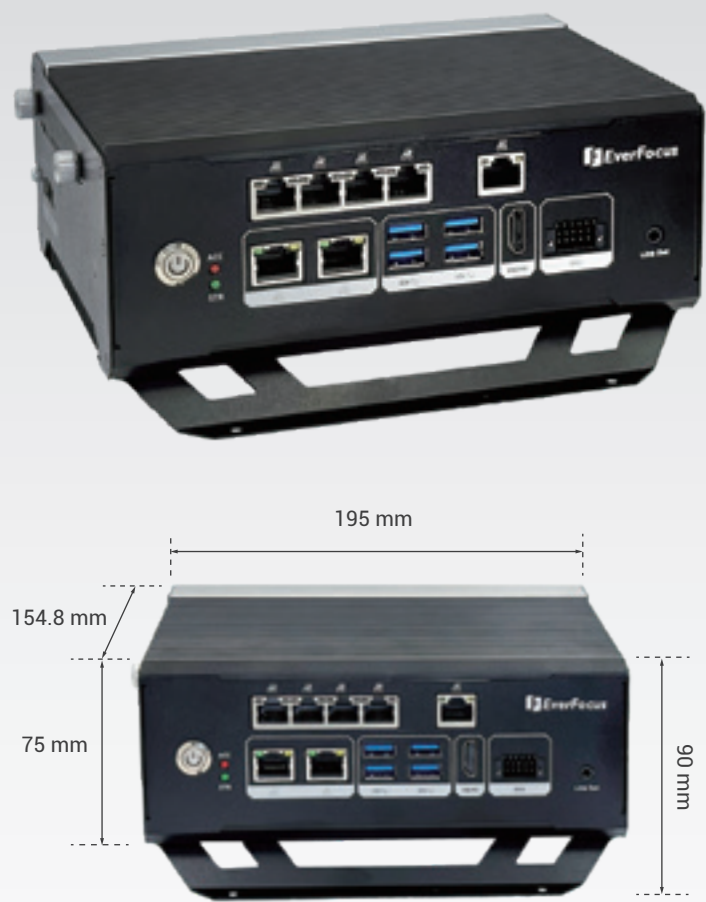
Ordering Information

Packing List
1 x EAC-30N3 BOX
1 x 3-pin Terminal Block Connector
1 x 5-pin Terminal Block Connector
1 x Wall Mount

Part Number	
2ENRL00DAP0002R	NVIDIA® Jetson Orin Nano™, 8 GB, 9 ~ 36 VDC
2ENRL00DAP0003R	NVIDIA® Jetson Orin Nano™, 16 GB, 9 ~ 36 VDC
2ENVPJONAIF2500-01	NVIDIA® Jetson Orin Nano™, 8 GB, 128 GB NVMe, 9 ~ 36 VDC
2ENVPJONAIF3500-01	NVIDIA® Jetson Orin Nano™, 16 GB, 128 GB NVMe, 9 ~ 36 VDC

Optional Accessories

Part Number / Item	
396CEAC3001	Adaptor (In: 100 ~ 240 VDC/Out: 12 VDC 5A 60W 3Pin)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
4710EM060KG5301	Quectel EM060K-GL 4G LTE, M.2 3042
4710RM520NG5301	Quectel RM520N-GL 5G NR, M.2 3052
4FP-MD00000	EnLi ENL-R8852BE, Wi-Fi 6, BT 5.2, M.2 2230



Ordering Information

Packing List
1 x EAC-50N3 BOX
1 x 3-pin Terminal Block Connector
1 x 10-pin Terminal Block Connector
1 x Wall Mount

Part Number	
EAC-50N3-00-204N00/ 2EAC-50N3-0400-01	NVIDIA® Jetson Orin™ NX, 8 GB, 9 ~ 36 VDC
EAC-50N3-00-205N00/ EAC-50N3-00-205N00	NVIDIA® Jetson Orin™ NX, 16 GB, 9 ~ 36 VDC
EAC-50N3-00-204N05/ 2EAC-50N3-0405-01	NVIDIA® Jetson Orin™ NX, 8 GB, 128 GB NVMe, 9 ~ 36 VDC
EAC-50N3-00-205N05/ 2EAC-50N3-0505-01	NVIDIA® Jetson Orin™ NX, 16 GB, 128 GB NVMe, 9 ~ 36 VDC

Optional Accessories

Part Number / Item	
5AA001ACA00009R	Adapter (In: 100 ~ 240 V/Out: 19 VDC 6.32 A 120 W)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
4710EM060KG5301	Quectel EM060K-GL 4G LTE, M.2 3042
4710RM520NG5301	Quectel RM520N-GL 5G NR, M.2 3052
4FP-MD00000	EnLi ENL-R8852BE Wi-Fi 6 BT 5.2 M.2 2230

Features

- Powered by NVIDIA® Jetson Orin™ NX
- Onboard 8/16 GB 128-bit LPDDR5
- Multiple I/O interface connections for data collection
- GbE LAN with PD/PSE, USB 3.1, Serial Port, CAN-FD
- Wide operating temperature -20 ~ 60℃



Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin™ NX NVIDIA 6/8-core Arm® Cortex®-A78AE v8.2
Memory	Onboard 8/16 GB 128-bit LPDDR5
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	2 x LED indicator (Power/Storage)
Wireless	1 x M.2 E-Key 2230 / 1 x M.2 B-Key 3052
Operating System	Linux (NVIDIA JetPack 6.2)
Power Supply	
Power Requirement	9 ~ 36 VDC,with ACC function
Power Consumption	150W
Environmental and Mechanical	
Dimension	195 x 154.8 x 75 mm (7.67" x 6.09" x 2.95")
Weight	2.9 kg
Mouting/Installation	Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning
Interface	
Serial Port	2 x RS232/RS422/485 DB9
CAN Bus	1 x CAN-FD DB9
Ethernet	7 x Gbe RJ45 Option A (PD Mode) : 1 x GbE PD (60W) 6 x Standard GbE Option B (PSE Mode) : 1 x GbE + 1 x GbE PSE (Max. 30W) 4 x GbE PSE (Max. 15W/port) 1 x Standard GbE
USB	4 x USB 3.1, Type-A
DI/DO	8 x Alarm I/O
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x Nano SIM card slot
Antenna	5 x External Antenna holes
Audio	1 x Line-out
Other Interface	Reset button

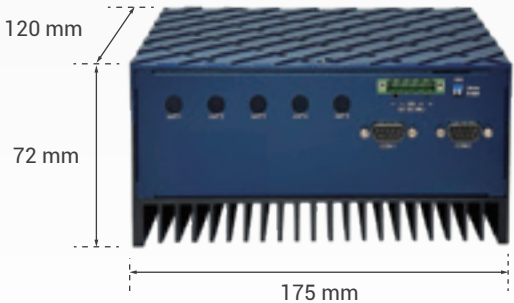
QXe-900

Qualcomm®KryoGen 6 CPU built on Arm v8.2
Cortex technology (Preliminary)



Features

- Qualcomm® QCS9075M with onboard 36GB LPDDR5
- Low Power consumption 20Watt (SoC) with AI performance of up to 101 TOPS
- Multiple I/O interface for data collection
- 4x MIPI Camera or (optional) 8x GMSL2 FAKRA
- (Optional) 4x PoE IEEE802.3 AF
- Wide operating temperature range -20°C~70°C and wide power input 9~55V



Ordering Information

Packing List	
TBD	

Part Number	
TBD	

Optional Accessories

Part Number / Item	
Wi-Fi Module	Wi-Fi Module M.2 2230 with Antenna
4G LTE Module	4G LTE Module M.2 3042 with Antenna
5G Module	5G Module M.2 3052 with Antenna
NEW	Expansion Board for Camera
NEW	Expansion Board for PoE

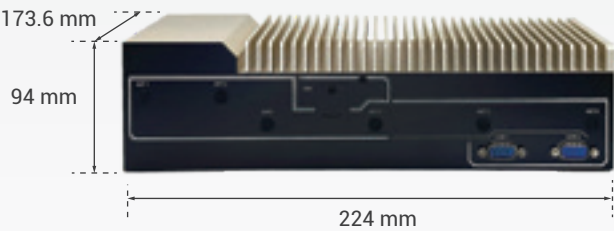
Specifications

System	
CPU	Qualcomm®KryoGen 6 CPU built on Arm v8.2 Cortex technology
GPU	Qualcomm®Adreno663 GPU
NPU	Dual V73, four HVX, two HMX, up to 1.5 GHz
Video Processor	decode 4k275, encode 4k170, concurrent 4k120 decode/encode
SoC	Qualcomm® QCS9075
Memory	36GB LPDDR5
Indicators	1 x LED indicator Power status
Operating System	Linux Kernel 4.14 & above, (64-bit)
Power Supply	
Power Requirement	Support DC input range of 9V to 55V
Power Consumption	Max. 45W(TBC)
Environmental and Mechanical	
Dimension	175mm(W) x 120mm(D) x 72mm(H)
Weight	1.5kg
Mouting/Installation	N/A
Operating Temperature	-4 °F ~ 158 °F (-20 °C ~ 70 °C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 85 °C)
Operating Humidity	5% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC, and planning
Interface	
Audio	1 x Phone Jack (Line-Out/MIC-IN) 2 x Speaker Connector (R/L)(terminal block)
CAN	Terminal block for 1 x CAN
Serial Port	2 x DB9 (RS232/422/485)
Ethernet	2 x RJ45 2.5Gb Ethernet (10/100M/1000M/2.5G)(QCA8081)
Security & TPM 2.0	Yes
USB	2 x USB3.0 Type-A 1 x USB3.1 Type-C
DI/DO	Terminal block 2x5 for 4DI/4DO
Display	2 x DP out
Flash (for Boot)	1 x 128GB UFS3.1
Storage	1 M.2 M-key 2280 (PCIe x4) for NVMe
Camera (optional)	8 x GMSL2 (FAKRA)
PoE (optional)	4 x RJ45 Gigabit Ethernet (10/100M/1000M)
Wireless	1 x M.2 Key-E 2230 (USB2.0/PCIEx1)
4G/5G	1 x M.2 Key-B 3052 (USB3.0/USB2.0)
SIM	1 x Nano SIM card
Micro SD	1 x Micro SD socket
Button	IGN ON
Power Connector	Terminal Block
Antenna	TBD
Battery	CR2032 RTC battery
Hardware monitoring	CPU Temperature



Features

- Intel® Panther Lake
- 2 x DDR5 SO-DIMM
- DC-IN 9V to 55V with Ignition
- TPM 2.0
- Support LAN,COM,USB,Display,DIO,CAN,POE
- Optional 4G LTE, 5G, Wi-Fi



Ordering Information

Packing List
1 x System
1 x Screw Pack
1 x 10 Pin Terminal block
1 x 5 Pin Terminal block

Part Number	
2IVS-50P0-00-01	Intel® Panther Lake-H FAN 9-55VDC In-Vehicle system
2IVS-50P0-10-01	Intel® Panther Lake-H FAN 9-55VDC 4xPOE(RJ45) In-Vehicle system

Optional Accessories

Part Number / Item	
8GB RAM	Memory DDR5 8GB SO-DIMM
16GB RAM	Memory DDR5 16GB SO-DIMM
32GB RAM	Memory DDR5 32GB SO-DIMM
Wi-Fi Module	Wi-Fi Module M.2 2230 with Antenna
4G LTE Module	4G LTE Module M.2 3042 with Antenna
5G Module	5G Module M.2 3052 with Antenna
GPS Module	GPS Module M.2 2242 with Antenna

Specifications

System	
CPU	Intel® Core™ Ultra Series 3 processors, PTL-H 484 12Xe 358H, 484 4Xe 366H, 404 4Xe 335
Memory	2 x DDR5 SO-DIMM up to 64GB
Storage	2 x Front-access 2.5" SSD Bay 1 x M Key (2280),NVMe SSD PCIe Gen4
Real Time Clock	Yes
Security	TPM 2.0
Thermal Design	Smart Fan design
Operating System	Ubuntu 22.04 LTS & above (64-bit) Windows 10,11(64-bit)
Power Requirement	
Power Supply	9-55 VDC (Ignition)
Power Consumption	Max. 180 W (typical)
Power Connector	5 pin terminal block
Environmental and Mechanical	
Dimension	224mm(W) x 173.6 mm(D) x 94mm(H)
Weight	3.1kg (TBC)
Operating Temperature	-20 - 60°C (-4 - 140°F)
Storage Temperature	-40 - 80°C (-40 - 176°F)
Operating Humidity	5 to 95% relative humidity(RH),non-condensing
Mounting/Installation	bracket(s) for installation
Certification	
Regulations	CE, FCC, RoHs
Interface	
Serial Port	2 x RS232/422/485 Isolated DB9
CAN Bus	2 x CAN FD Isolated terminal block
Ethernet	2 x RJ45 Intel® I226iT 2.5GbE LAN
USB	4 x USB3.2 Gen2x1 (Type A) 1 x USB2.0 wafer
DI/DO	4 x DI, 4 x DO, Isolated terminal block
Display	1 x HDMI 2.1 out 1 x DP 2.0
PoE	2 x RJ45 Intel® I226iT 2.5GbE PoE PSE 802.3af total 30W (Optional)
Indicators	1 x Power LED 1 x Status LED (for IGN)
Expansion Slot	1 x M.2 B Key (3052) PCIe x1 + USB3.2/2.0 1 x M.2 B Key (2242) PCIe x1 + USB3.2/2.0 1 x M.2 E Key (2230),PCIe x1 + USB2.0
SIM Slot	1 x Nano SIM Card Socket
Antenna	6 x External Antenna holes
Other Interface	1 x power button

Solution 4

Advanced Vision Fusion

201~300 TOPS

Products

- EAC-70N
- EAR-70N
- eNVP-JAO-AI
- PMD-40

Key Points

- Multi-Camera
- Sensor Fusion
- Advanced AOI
 - AI NVR
- Robotics Vision
- Real-Time Video Analytics

Application Scenarios

- Robotic Arm Vision
- Multi-Sensor Inspection
- Smart Factory AI NVR
- Production Line Quality Control
- Synchronized Perception



EAC-70N

Fanless Embedded Edge AI System with NVIDIA® Jetson Orin™ AGX



Features

- Powered by NVIDIA® Jetson Orin™ AGX Module
- Multiple I/O interface connections for data collection
- GbE LAN, USB 3.2, Series Ports, CAN-FD, HDMI
- Wide range power input 9 ~ 36 VDC

Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin™ AGX NVIDIA 8/12-core Arm® Cortex®-A78AE v8.2
Memory	32/64 GB 256-bit LPDDR5 DRAM
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	1 x LED indicator (Power)
Wireless	1 x M.2 E-Key 2230 / 1 x M.2 B-Key 3052
Operating System	Linux (NVIDIA JetPack 5.1.2 and above)
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	Max. 90W(TBC)
Environmental and Mechanical	
Dimension	195 x 155 x 75 mm (7.67" x 6.1" x 2.95")
Weight	2.3kg (TBC)
Mouting/Installation	Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning
Interface	
Serial Port	2 x RS-232/422/485 switchable, Terminal Block
CAN Bus	1 x CAN Bus, 3-pin Terminal Block
Ethernet	2 x GbE LAN, RJ45 1 x 10GbE LAN, RJ45
USB	4 x USB 3.2 Gen1, Type-A 1 x USB 3.2 Gen1, Type C
DI/DO	8 x Alarm I/O
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x SIM card slot 1 x PCIe x8 Connector 1 x MIPI CSI-2 Connector

Ordering Information

Packing List
1 x EAC-70N AI BOX
1 x 3-pin Terminal Block Connector
1 x 12-pin Terminal Block Connector
1 x Wall Mount

Optional Accessories

Part Number / Item	
5AA001ACA00009R	Adapter (In: 100 ~ 240 V/Out: 19 VDC 6.32 A 120 W)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
4710EM060KG5301	Quectel EM060K-GL 4G LTE, M.2 3042
4710RM520NG5301	Quectel RM520N-GL 5G NR, M.2 3052
4FP-MD00000	EnLi ENL-R8852BE Wi-Fi 6 BT 5.2 M.2 2230
39CC128G005	Transcend TS128GMTE672A-VS1 128G,M.2 2280



Features

- Powered by NVIDIA® Jetson AGX Orin™ Module
- Support 12x GMSL camera input via FAKRA Z connectors
- Multiple I/O interface connections for data collection
- Gigabit LAN, USB 3.2, Series Ports, CAN-FD, HDMI
- Wide range power input 9~36VDC



Specifications

System	
CPU/GPU	NVIDIA® Jetson AGX Orin™ NVIDIA 8/12-core Arm® Cortex®-A78AE v8.2
Memory	32/64 GB 256-bit LPDDR5 DRAM
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	2 x LED indicator (Power, Storage)
Wireless	1 x M.2 E-Key 2230 / 1 x M.2 B-Key 3052
Operating System	Linux (NVIDIA Jetpack 6.2)
TPM	TPM2.0
Power Supply	
Power Requirement	9 ~ 36 VDC
Power Consumption	Max. 100W(TBC)
Environmental and Mechanical	
Dimension	210 x 145 x 97 mm
Weight	2.1kg (TBC)
Mouting/Installation	Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning
Interface	
GMSL Camera	12 x FAKRA Z code with frame sync
Serial Port	2 x RS-232/485 switchable, DB9
CAN Bus	1 x CAN Bus, 3-pin Terminal Block
Ethernet	2 x GbE LAN, RJ45 1 x 10GbE LAN, RJ45
USB	4 x USB 3.2 Gen1, Type-A 1 x USB 3.2 Gen1, Type C
DI/DO	8 x Alarm I/O
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x SIM card slot 1 x PCIe x8 Connector

Ordering Information

Packing List	
1 x EAR-70N AI BOX	
2 x 3-pin Terminal block Connector	
1 x 12-pin Terminal block Connector	

Optional Accessories

Part Number / Item	
39CC001T004	1TB.M.2 2280, PCIe Gen4x4, M-key, 3D TLC BiCS5,PE:3K, TS1TMTE712A-VS1
39CC128G005	M.2 SSD,128G,Transcend,TS128GMTE672A-VS1
4G LTE Module	4G LTE, Quectel EM060K-GL, M.2 B-key 3042 with Antenna
5G Module	5G LTE, Quectel RM520N-GL, M.2 3052 with Antenna
WiFi Module	WIFI MODULE ENL-R8852BE M.2 2230 with Antenna
396DZ100014	Sony ISX031, 195.9°, DC 6~12V/6V, IP67/ IP69K, oToBrite, oToCAM223-S195M
396DZ100002	Sony ISX031, 63.9°, DC 6 ~ 12V/6V, IP 67/IP 69K, oToBrite, oToCAM223-H61M

eNVP-JAO-AI-V0008

Fanless Embedded Edge AI System
with NVIDIA® Jetson AGX Orin™



Features

- Fanless AI edge embedded box PC
- Powered by NVIDIA® Jetson AGX Orin™
- Onboard 32/64 GB 256-bit LPDDR5
- Multiple I/O interface connections
- Support 8 x Ports PoE
- Supports Allxon OOB remote device management
- 9 ~ 55 VDC wide-range input



Ordering Information

Packing List	
1 x AI BOX	
1 x Power Harness Cable	
2 x SATA Cable	
2 x Alarm I/O Cable	
1 x RS-485 Cable	
2 x Mounting Bracket	
1 x Screw Kit (4 screws + 8 spacers for mounting bracket, 8 screws for SATA drive)	

Part Number	
2ENAR00DAP0001R	eNVP-JAO-AI-V0008, AGX Orin, 8 x PoE, 9 ~ 55 VDC

Optional Accessories

Part Number / Item	
4B01XUD24218041	Power Adapter AC100 ~ 240, 24VDC/9.1A
471200BSWIFAC01	Allxon swiftDR OOB Enabler



Specifications

System	
AI Accelerator	NVIDIA® Jetson AGX Orin™ 32/64 GB
CPU	NVIDIA 8/12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2/3 MB L2 + 4/6 MB L3
GPU	NVIDIA 1792/2048-core Ampere GPU with 56/64 Tensor Cores
Memory	Onboard 32/64 GB 256-bit LPDDR5 204.8 GB/s
Storage	2 x SATA 1 x SD Card slot 1 x NVMe SSD (supported via 1 x M.2 M-Key 2280)
Indicators	4 x LED
Cellular	Supported (via 1 x M.2 E-Key 2230)
Wireless LAN	Supported (via 1 x M.2 B-Key 3042/3052)
Operating System	Linux (NVIDIA JetPack 5.1 and above)
Power	
Power Supply	9 ~ 55 VDC, with ACC function
Ignition Feature	Supported
Power Consumption	TBC
Interface	
Serial Port	2 x RS-232, DB-9 / 1 x RS-485, Terminal Block
CAN Bus	1 x CAN bus, DB-9
Ethernet	1 x 10GbE LAN / 1 x GbE LAN
PoE	8 x PoE 10/100 MbE LAN (Max. Single: 25 W/Max. Total: 75 W)
USB	2 x USB 3.0, Type-A 2 x USB 2.0, Type-A
OTG USB	1 x Micro USB
DIO	8 x GPIO, Terminal Block
Display	1 x HDMI 2.0, Type A
Audio	1 x Audio In/Out
Antenna	5 x SMA connector
Button	1 x PWR 1 x Reset/Recovery Switch
Power	1 x PWR Input, 3-pin Terminal Block
Others	1 x SIM Card slot
General	
Dimensions	224 x 173.6 x 94 mm (8.81" x 6.83" x 3.7")
Weight	4.5 kg
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F) according to IEC60068-2 with 0.5 m/s AirFlow
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Storage Humidity	10% ~ 90%, non-condensing
Certification	55032/55035 Other certifications (by project)

PMD-40

High Performance Edge AI Vision Computer with
NVIDIA® Jetson AGX Orin™ [Preliminary Release]



Features

- Powered by NVIDIA® Jetson AGX Orin™ Module
- GbE LAN, USB Type-C/Type-A, HDMI Input/Output
- Wide range power input 24 VDC



Specifications

System	
CPU/GPU	NVIDIA® Jetson AGX Orin™ NVIDIA 8/12-core Arm® Cortex®-A78AE v8.2 NVIDIA 1792-core Ampere GPU with 56 Tensor Cores
Memory	32GB 256-bit LPDDR5 DRAM
Storage	64GB eMMC1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Wireless	1 x M.2 E-Key 2230 1 x M.2 B-Key 3052
Operating System	Linux (NVIDIA JetPack 5.1.2 and above)
Power Supply	
Power Requirement	24 VDC support Ignition power
Power Consumption	TBC
Environmental and Mechanical	
Dimension	230 x 151.5 x 64 mm
Weight	TBD
Operating Temperature	-20 ~ 60 °C w/fan
Storage Temperature	-40 ~ 85 °C
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC

Interface	
Ethernet	1 x GbE LAN, RJ45
USB	2 x USB 3.2, Type-C 4 x USB 3.2, Type-A
Display	1 x HDMI 2.0-Input 1 x HDMI 2.0-Output
Audio	Yes
Debug Port	1 x Micro USB
Expansion Slot	1 x Micro SD Slot 1 x Nano SIM
Other Interface	1 x Fan
Other Function	
TPM	TPM 2.0

Solution 5

Robotics Vision Intelligence

2000+ TOPS

Products

- EAR-100T
- EAC-100T

Key Points

- Humanoid Robots
 - Robot Dogs
- Next-Gen Robotics
- Large-Scale Visual Inference
 - Embodied AI
 - Physical AI

Application Scenarios

- Robot Dog Patrol
- Humanoid Robot Perception
- Multi-Camera + Sensor Fusion
- Large AI Model Inference at the Edge
- VLA / VLM-Related Robotics Workloads



EAR-100T

Robotic Controller with NVIDIA® Jetson Thor™ Module



Ordering Information

Packing List	Part Number
1 x AI BOX	2EAR-100T7-0800-01
1 x 3-pin Terminal Block Connector	
1 x 2-pin Terminal Block Connector	

Optional Accessories

Part Number / Item	
39CC001T005	M.2 SSD.2280.1TB.PCie Gen3x4, M-Key, Wide Temp. Transcend.TS1TMT672AI-VS1
2TSMC-X670-MB01-01	TSMC.RIVR.timesync with XsensTi670 and Ublox ZED-F9P-15B
4G LTE Module	4G LTE, Quectel EM060K-GL, M.2 B-key 3042 with Antenna
5G Module	5G LTE, Quectel RM520N-GL, M.2 3052 with Antenna
5G Module	M.2 FN990A28 5G Module kits. EAR-100T.Rev.V1.0.ø1.13 L:200 5x Antenna
5G Module	M.2 FN990B40 5G Module kits. EAR-100T.Rev.V1.0.L:250 5x Antenna (5G/GPS)
WiFi Module	WIFI MODULE ENL-R8852BE M.2 2230 with Antenna
4K02X00000020AR	Power Cord US
4125E100011	AC/DC Adapter.IN100-240Vac OUT24Vdc.218.4W.9.1A.3Y/C13 +/-NC
396DZ100002	Sony ISX031, 63.9° , DC 6 ~ 12V/6V, IP 67/IP 69K. oToBrite.oToCAM223-H61M
396DZ100003	Sony ISX031, 120.6° , DC 6 ~ 12V/6V, IP 67/IP 69K. oToBrite.oToCAM223-C120M
396DZ100014	Sony ISX031, 195.9° , DC 6~12V/6V, IP67/ IP69K. oToBrite.oToCAM223-S195M

Features

- Accelerated by NVIDIA® Jetson T5000™
- Up to 2070 FP4 TFLOPS of AI compute and 128 GB of memory
- 12 x GMSL2 camera FAKRA Z code interface with frame sync
- 2 x 5 GbE LAN, 2 x CAN-FD
- 4 x USB 3.2, 1 x Audio
- Power input 19 ~ 36 VDC

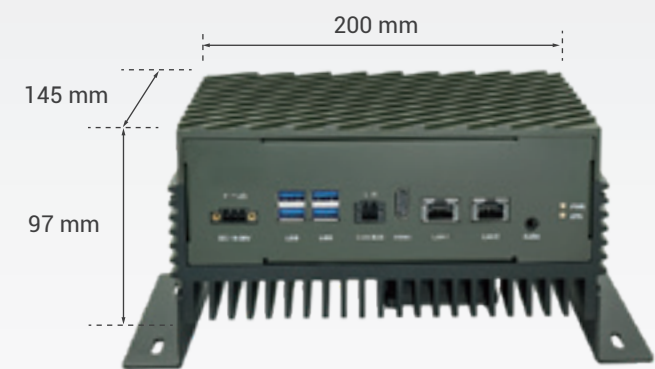


Specifications

System	
CPU/GPU	NVIDIA Jetson T5000 Blackwell GPU + Arm Neoverse V3AE CPU
Memory	128 GB (8 x 16 GB) memory with 256-bit LPDDR5X DRAM
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	2 x LED indicator (Power/Storage)
Wireless	1 x M.2 E-Key 2230, Wi-Fi/BT 1 x M.2 B-Key 3052, 4G/5G
Supported Software	NVIDIA JetPack™ 7.0
Security	TPM2.0
Power Supply	
Power Requirement	19 ~ 36 VDC
Power Consumption	Max. 180W(TBC)
Environmental and Mechanical	
Dimension	200 x 145 x 97 mm (7.87" x 5.7" x 3.82")
Weight	2.8kg
Mouting/Installation	Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Interface	
GMSL Camera	12 x FAKRA Z code with frame sync
CAN Bus	2 x CAN-FD
Ethernet	2 x 5 GbE LAN, RJ45
USB	4 x USB 3.2, Type-A
Audio	1 x speaker 1 x Mic in (Optional)
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x USB type C
SIM Slot	1 x Dual SIM Card Socket
Expansion Slot	1 x M.2 E-key (2230) for Wi-Fi/BT 1 x M.2 M-key (2280) for NVMe SSD 1 x M.2 B-key (3052) for 4G/5G
Other Interface	Build in IMU, GNSS

EAC-100T

Robotic Controller with NVIDIA® Jetson Thor™ Module



Ordering Information

Packing List	Part Number
1 x AI BOX	2EAC-100T7-0800-01
1 x 3-pin Terminal Block Connector	
1 x 2-pin Terminal Block Connector	

Optional Accessories

Part Number / Item	
2TSMC-X670-MB01-01	TSMC.RIVR.timesync with XsensTi670 and Ublox ZED-F9P-15B
4G LTE Module	4G LTE, Quectel EM060K-GL, M.2 B-key 3042 with Antenna
5G Module	5G LTE, Quectel RM520N-GL, M.2 3052 with Antenna
5G Module	M.2 FN990A28 5G Module kits. EAR-100T.Rev.V1.0.ø1.13 L:200 5x Antenna
5G Module	M.2 FN990B40 5G Module kits. EAR-100T.Rev.V1.0.L:250 5x Antenna
WiFi Module	WIFI MODULE ENL-R8852BE M.2 2230 with Antenna
4K02X00000020AR	Power Cord US
4125E100011	AC/DC Adapter.IN100-240Vac OUT24Vdc.218.4W.9.1A.3Y/C13 +/-NC

Features

- Accelerated by NVIDIA® Jetson T5000™ and NVIDIA® Jetson T4000™
- Up to 2070 FP4 TFLOPS of AI compute and
- 128 GB of memory
- 2 x 5 GbE LAN, 2 x CAN-FD
- 4 x USB 3.2, 1 x Audio (optional)
- Power input 19 ~ 36 VDC



Specifications

System	
CPU/GPU	NVIDIA Jetson T5000 Blackwell GPU + Arm Neoverse V3AE CPU NVIDIA Jetson T4000 Blackwell GPU + 12-core Arm® Neoverse®-V3AE 64-bitCPU
Memory	128 GB (8 x 16 GB) memory with 256-bit LPDDR5X DRAM
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	2 x LED indicator (Power/Storage)
Wireless	1 x M.2 E-Key 2230, Wi-Fi/BT 1 x M.2 B-Key 3052, 4G/5G
Supported Software	NVIDIA JetPack™ 7.0
Security	TPM2.0
Power Supply	
Power Requirement	19 ~ 36 VDC
Power Consumption	Max. 180W(TBC)
Environmental and Mechanical	
Dimension	200 x 145 x 97 mm (7.87" x 5.7" x 3.82")
Weight	2.8kg
Mouting/Installation	Wall Mount
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Interface	
CAN Bus	2 x CAN-FD
Ethernet	2 x 5 GbE LAN, RJ45
USB	4 x USB 3.2, Type-A (Optional)
Audio	1 x speaker 1 x Mic in (Optional)
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x USB type C
SIM Slot	1 x Dual SIM Card Socket
Expansion Slot	1 x M.2 E-key (2230) for Wi-Fi/BT 1 x M.2 M-key (2280) for NVMe SSD 1 x M.2 B-key (3052) for 4G/5G
Other Interface	Build in IMU, GNSS

By Application

AI Camera / Vision Sensing



SQA-8D2



SQA-8B2



PHX-N2120-F500



PHX-N1000 Series

Factory Edge Analytics



EAC-10N



EAC-30N



VAI-MTL



IVS-50P0

AMR / In-Vehicle AI



EAR-30N



EAC-50N



QXe-900

Advanced AI NVR / Sensor Fusion



EAC-70N



EAR-70N



eNVP-JAO-AI

Robot Dog / Humanoid



EAR-100T



EAC-100T

EveFocus
Smart Edge, Ready AI



Headquarters

+886 (2) 2662-2338 +886 (2) 2662-3632 sales@everfocus.com

1F, No. 134, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)