NeuroEye-C08M678R



Business Card Size Al Edge Camera

Features

- Adopting Sony STARVIS 2 & Pregius S Sensor
- Hardware ISP desing without CPU/GPU Loading
- HDR (High Dynamic Range) Support
- DMA PCIe Design High-Bandwidth Capture, providing RGB444 image quality
- C-Mount Design offering flexibility for professional customers to use different lens combinations





Sensor Specifications

CMOS Specifications				
Image Sensor	IMX678			
Resolution	3840x2160	Frame Rate	60	
Shutter	Rolling Sutter	Sensor Size	1/1.8"	
Pixel Sise	2.0 x 2.0 μm	Sensor Model	Sony IMX678	
Color/Mono	Color	Lens Mount	C Mount	

Specifications

System			
CPU	NVIDIA Jetson Orin™ NX 8GB 6-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 1.5MB L2 + 4MB L3	NVIDIA Jetson Orin™ NX 16GB 8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 2MB L2 + 4MB L3	
GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores		
Al Performance	NVIDIA Jetson Orin™ NX 8GB 70 TOPS	NVIDIA Jetson Orin™ NX 16GB 100 TOPS	
System Memory	NVIDIA Jetson Orin™ NX 8GB 8GB LPDDR5	NVIDIA Jetson Orin™ NX 16GB 16GB LPDDR5	
Interface			
Storage	Supports External NVMe 1×Micro SD Card Slot		
Display Interface	1×Mini DP1.4		
Ethernet	1×RJ45 for 10/100/1000Mbps Ethernet DHCP Client		
Expansion Slot	M.2 1×M.2 2230 M Key PCIe Gen4×2 Slot 1×M.2 2230 E Key PCIe Gen4×1 Slot		
USB	1×USB3.2 Gen2 (Type-C) 1×USB3.2 Gen1 (Type-A)		
Peripheral Communication	14 Pin Header 1×USB2.0 4×GPIO 1×UART 1×I2C 8 Pin Pheonix Connector (CON1) 1×GPIO 1×RS232 1×RS485 8 Pin Pheonix Connector (CON2) 1×GPIO 2×I2C		
Misc. Features	Firmware Upgradable		

SDK / Software

Video Feature			
	AV1 (UHP)		
Video Encode	1×4K60 3×4K30 6×1080p60 12×1080p30		
	H.265 (UHP)		
	1×4K60 3×4K30 6×1080p60 12×1080p30		
	H.264 (UHP)		
	1×4K60 2×4K30 5×1080p60 11×1080p30		
	AV1 (Main Profile)		
	1×8K30 2×4K60 4×4K30 9×1080p60 20×1080p30 H.265 (Main, Main10)		
	1×8K30 2×4K60 4×4K30 9×1080p60 18×1080p30		
Video Decode	H.264 (Baseline, Main, High)		
	1×4K60 2×4K30 5×1080p60 11×1080p30		
	VP9 (Profile 0, Profile 2)		
	1×4K60 3×4K30 7×1080p60 15×1080p30		
SDK			
	Capture		
	High Performance Renderer		
	Image Snapshot		
	Deinterlace, Alpha Blending Engine Auto Signal Detection		
	2D/3D Video, Audio and VANC Streams Capture		
	Record		
	Encrypt / Sync / Clone / Recording		
0045	Time-Shifting / Rewind / Pre-Event / Recording		
QCAP	Multi-Streams (3D) Recording Animation Transition Effect		
	Video Cropping, Scaling and Alpha Blending Engine		
	Stream		
	2D/3D Universal Stream Client		
	2D/3D Multi-Streams Stream Server		
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*), Dante AV-H (*)		
	Animation Transition Effect Video Cropping, Scaling and Alpha Blending Engine		
	*Separate License Required		
	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications		
	Face Recognition Objects Detection		
QDEEP	Objects Segment		
	Optical Character Recognition		
	License Plate Recognition Customizable Video AI Functions Upon Request		
Software (Optional)			
	Web Based User Interface		
	Encode / Decode		
	AV1, H.26X		
Xtreamer	Color Format Adjust 444 / 422 / 420, 10Bit / 8Bit Select		
	Record		
	MP4, TS		
	Stream / Network		
	RTSP, RTMP, HLS, SRT, TS, WebRTC. NDI-HX (*), Full NDI (*),		
	Dante AV-H (*) *Separate License Required		

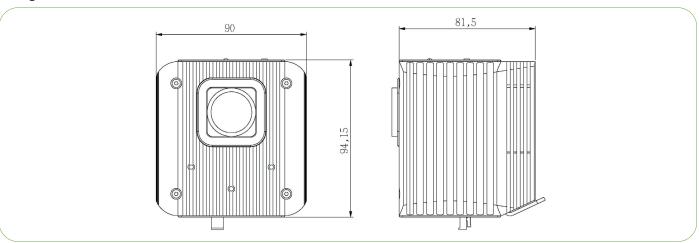
Environment

Development Environment		
OS	Ubuntu: 20.04	
Kernel	5.10.104-tegra or Higher	
BSP	Linux for Tegra(L4T) R35.3.1 or Higher	
SDK	JetPack 5.1.1 or Higher	
Environment		
Power Supply	DC Input : 9~24V (Max 3.5A)	
Power Consumption	TBA	
Operating Temperature	Standard Version: 0~60 °C with Airflow	
Storage Temperature	-20~80 ° C	

Mechanical

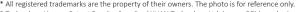
• Dimension of Case: 94.15mm×90mmx81.5mm • Dimension of main Board: 90mm×55mm

• Weight: TBA



I/O Layout





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