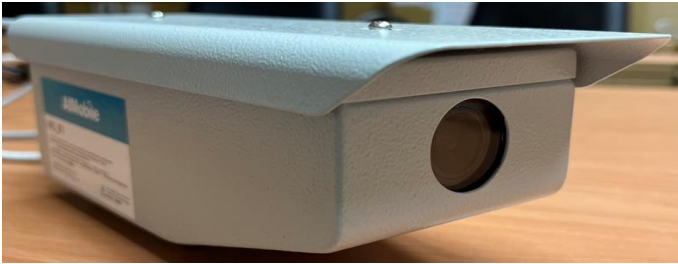




Features



- Universal Camera (uc) serial product
- For AI Edge computing design
- Fanless design
- Nvidia Jetson Orin Nano
- Linux OS with BSP (Board Support Package)
- Support Deep Learning trained models
- Wide operation temperature

Introduction

AIM-Edge ucox is the fastest, most power-efficient embedded AI computing device. It is an ARM-based system that integrates the NVIDIA® Jetson™ Orin Nano system-level module processor and provide up to 40/20 trillion operations per second (TOPS). The system features 8GB/4GB LPDDR5 memory, 4K/FHD video decoding/encoding, 2 RJ45 and M.2 SSD extensions. Designed for brings true AI computing at the edge applications, it supports rich I/O with low power consumption. Wall-mounted brackets and fanless design make it easy to install in harsh environments.

Specification

	Model	AIM-Edge ucn1	AIM-Edge ucx1	AIM-Edge ucon	AIM-Edge ucox
Processor	CPU	NVIDIA Jetson Nano	NVIDIA Jetson Xavier NX	NVIDIA Jetson Orin NX	NVIDIA Jetson Orin NX
	Memory	4GB LPDDR4	8GB LPDDR4	8GB/4GB LPDDR5	16GB/8GB LPDDR5
	eMMC	16GB eMMC	16GB eMMC	External NVMe via x4 PCIe	External NVMe via x4 PCIe
Wireless	4G LTE/5G			None	
	WLAN			None	
	BT			None	
Ethernet	RJ45/POE	1 x 10/100/1000 Ethernet	1 x 10/100/1000 Ethernet	1 x 10/100/1000 Ethernet	1 x 10/100/1000 Ethernet
Camera					
	Image Sencor	Sony Starvis™ IMX462 , 1/2.8” progressive CMOS sensor, Pixel: 2Mega pixel			
	Lens focal length	Motorized MFZ lens, 2.8-12mm			
	Smart focus	SmartFocus technology			
	Minimum illuminator	Color: 0.01 lux (AGC on), B/W: 0.005 lux (AGC on)			
	ICR	Built in ICR (IR cut removal) for true day and night			
	View angle	FOV: H: 101.7~33.5 V:52.5~18.8 D: 125~38.5			
Video	image compression	H.265, H.264 , MJPEG tri-encoder simultaneously			
	Streams/Resolution and FPS	2 streams / 1920*1080 @ 30fps, 1280*720 @ 30fps, 640*360 @ 30fps, 320*180 @ 30fps			
	image compression	H.265, H.264 , MJPEG tri-encoder simultaneously			
IQ	Auto exposure, manual exposure (1/30~1/20,000s) Support Day, night mode different parameter				
	Back light control				
	Auto white balance : auto, manual (different level selectable)				
	Auto gain control , manual gain value				
	2D de-noise and 3D-denoise (different level selectable)				
	IQ: Brightness, contrast, hue, sharpness, gama				
	True WDR (wide dynamic range) and digital WDR				
Network	Network protocol	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, DIPS, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, Samba, ICMP, SNMP, 802.1x			
	Integration interface	ONVIF Profile G, S , RTSP and CGI are available			
Expansion	Storage	1 x PCIE M.2 SSD (128GB)	1 x PCIE M.2 SSD (256GB)	1 x PCIE M.2 SSD (128GB)	1 x PCIE M.2 SSD (256GB)
Enviorment	Temperature	Operation: -20 ~ 55°C			
Mechanical	Dimension	TBD			
	Weight	TBD			
OS	Linux	Linux 4.9/ Ubuntu 18.04	Linux 4.9/ Ubuntu 18.04	Linux 5.1/ Ubuntu 20.04	Linux 5.1/ Ubuntu 20.04
Power		POE 802.3at			