

Canlab product Feature Comp

Board

Model		CLV-Series					CLPE-Series				CLMU-Series				CLEB-Series			
Model Name		CLV-G-DNS-CX3	CLV-G-DNS-CX3-A	CLV-G-GEO-CX3-A	CLV-G-NON-CX3-A	CLV-G-NEK-CX3-A	CLPE-G-TDA4VM	CLPE-G-AP0202	CLPE-G-NVP2600D	CLPE-G-GW5410	CLMU-G-GEO-AGX-2A	CLMU-G-GEO-NON-2A	CLMU-G-GEO-AGX-6A	CLMU-G-GEO-NON-6A	CLEG-G-GEO-DNX-A	CLEG-G-GEO-DNA-A	CLEG-G-NON-DNX-A	CLEG-G-NON-DNA-A
Design																		
Dimensions (mm)		87.5*101*37	87.5*101*37	87.5*101*37	87.5*101*37	87.5*101*37	181*146*29	181*146*29	181*146*29	181*146*29	88.3 * 65.9 * 17	88.3 * 65.9 * 17	88.3 * 65.9 * 17	88.3 * 65.9 * 17	160*130*61	160*130*61	160*130*61	160*130*61
Weight		217.5g	217.5g	217.5g	217.5g	217.5g	516g	516g	516g	516g	289g	289g	289g	289g	900g	900g	900g	900g
Feature		VIEW	VIEW	VIEW	VIEW	VIEW	PCIE	PCIE	PCIE	PCIE	2CH AGX ORIN Docking	2CH AGX ORIN Docking	2CH AGX ORIN Docking	2CH AGX ORIN Docking	EDGE BOX	EDGE BOX	EDGE BOX	EDGE BOX
Status		On Sale	Done	Done	Done	Done	Done	On Sale	On Sale	On Sale	ON SALE	ON SALE	ON SALE	ON SALE	Done	Done	Done	Done
CAMERA	Platform	NVIDIA	Can-Lab	Can-Lab	Can-Lab (OM5 Camera)	Can-Lab	CanLab Camera	NVIDIA Camera	CanLab Camera	CanLab Camera	CanLab Camera	CanLab Camera	CanLab Camera	CanLab Camera	CanLab Camera	CanLab Camera	CanLab Camera	CanLab Camera
	Camera	AR0231	IMX390, AR0233	IMX390, AR0233	IMX390, AR0233	IMX390, AR0233	IMX390, AR0233, AR0144, AR0820	AR0231	IMX390	IMX390, AR0233	IMX390, AR0233, AR0820	AR0144, AR0820	IMX390, AR0233, AR0820	IMX390, AR0233, AR0820	IMX390, AR0230	IMX390, AR0230	IMX390, AR0230	IMX390, AR0230, AR0144
CAMERA Input		GMSL 1	GMSL 2	GMSL 2	GMSL 2	GMSL 2	GMSL 1	GMSL 1	GMSL 2	GMSL 2	GMSL 2	GMSL 2	GMSL 2	GMSL 2	GMSL 2	GMSL 2	GMSL 2	GMSL 2
CAMERA CHANNEL		1ch	1ch	1ch	1ch	1ch	4ch	4ch	4ch	4ch	2ch	2ch	6ch	6ch	4ch	4ch	4ch	4ch
De-Serializer		MAX92706	MAX9296	MAX9296	MAX9296	MAX9296	MAX92712	MAX92706	MAX9296	MAX9296	MAX9296	MAX9296	MAX9296	MAX9296	MAX9296	MAX9296	MAX9296	MAX9296
ISP		AP0202	AP0202	GW5410	-	NVP2600D	TDA4VM	AP0202	NVP2600D	GW5410	GW5410	-	GW5410	-	GW5410	GW5410	-	-
CLIENT OS	Window	O	O	O	O	O	X	X	X	X	-	-	-	-	-	-	-	-
	Linux	O	O	O	O	O	NUVO PC	NUVO PC	NUVO PC	NUVO PC	O	O	O	O	O	O	O	O
POWER	Internal	X	X	X	X	X	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V
	External	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V	9V - 26V
OUT Interface		USB 3.0(UVC/CI/8)	USB 3.0(UVC/CI/8)	USB 3.0(UVC/CI/8)	USB 3.0(UVC/CI/8)	USB 3.0(UVC/CI/8)	PCIe GEN3 4LANE	PCIe GEN3 4LANE	PCIe GEN3 4LANE	PCIe GEN3 4LANE	MIP1 (CSI-2)	MIP1 (CSI-2)	MIP1 (CSI-2)	MIP1 (CSI-2)	PCIe GEN4 4LANE	PCIe GEN4 4LANE	PCIe GEN4 4LANE	PCIe GEN4 4LANE
MCU		CX3(CYRESS)	CX3(CYRESS)	CX3(CYRESS)	CX3(CYRESS)	CX3(CYRESS)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)	C8051F582 (MIP0)
CPU		-	-	-	-	-	-	-	-	-	-	-	-	-	8-core Arm® Cortex®-A7BAE v8.2 64-bit CPU 2MB L2 + 4MB L3	8-core Arm® Cortex®-A7BAE v8.2 64-bit CPU 2MB L2 + 4MB L3	6-core Arm® Cortex®-A7BAE v8.2 64-bit CPU 1.5MB L2 + 4MB L3	6-core Arm® Cortex®-A7BAE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
GPU		-	-	-	-	-	-	-	-	-	-	-	-	-	NVIDIA Ampere architecture with 1024 NVIDIA® CUDA® cores and 32 tensor cores	NVIDIA Ampere architecture with 1024 NVIDIA® CUDA® cores and 32 tensor cores	1024-core NVIDIA Ampere architecture GPU With 32 tensor cores	1024-core NVIDIA Ampere architecture GPU With 32 tensor cores
HDMI		-	-	-	-	-	HDMI 1.4	HDMI 1.4	HDMI 1.4	HDMI 1.4	Opt HDMI Conn	Opt HDMI Conn	Opt HDMI Conn	Opt HDMI Conn	HDMI	HDMI	HDMI	HDMI
Deep Learning		-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Support Platforms		-	-	-	-	-	-	-	-	-	NVIDIA Jetson AGX Orin	NVIDIA Jetson AGX Orin	NVIDIA Jetson AGX Orin	NVIDIA Jetson AGX Orin	NVIDIA Jetson Orin NX	NVIDIA Jetson Orin Nano	NVIDIA Jetson Orin Nano	NVIDIA Jetson Orin Nano
Waterproof		IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5	IP5
Operating temperature		-10°C - 60°C	-10°C - 60°C	-10°C - 60°C	-10°C - 60°C	-10°C - 60°C	-20°C - 70°C	-20°C - 70°C	-20°C - 70°C	-20°C - 70°C	-25°C - 85°C	-25°C - 85°C	-25°C - 85°C	-25°C - 85°C	-10°C - 60°C	-10°C - 60°C	-10°C - 60°C	-10°C - 60°C
Expansion Header	I2C	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	I2S	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O
	GPIO	X	O	O	X	O	X	X	O	O	X	O	O	O	O	O	O	O
	UART	X	O	X	X	X	O	O	O	O	X	X	X	X	O	O	O	O
	SPI	O	O	O	O	O	O	O	O	O	O	X	X	X	O	O	O	O
	CAN	X	X	X	X	X	O	O	O	O	O	X	X	X	X	X	X	X

Camera

Model		CLCC-Series				
Model Name		CLCC-SOG-020-0x	CLCC-ONG-020-0x	CLCC-ONG-080-120	CLCC-OVG-020-160	CLCC-ONG-010-070
Design						
Dimensions (mm)		68 * 39 * 31.7	68 * 39 * 31.7	22.3 * 22.3 * 37.7	57 * 65.5 * 18.2	63.3 * 40 * 36.9
Weight		50g	50g	50g		
Feature		CAMERA	CAMERA	CAMERA	CAMERA	CAMERA
Status		ON SALE	ON SALE	Done	Done	ON SALE
IMAGE SENSOR		IMX390	AR0233	AR0820	OV2312	AR0144
Sensor type		RGGB	RGGB	RGGB	RGGR	RGGR
OPTICAL FORMAT (inch)		1/2.7"	1/2.7"	1/2"	1/2.9"	1/4"
FOV	HFOV	30 / 56 / 98 / 139	30 / 56 / 98 / 139	120	154.24	68.3
	VFOV	20 / 36 / 56 / 87	20 / 36 / 56 / 87	58	198.66	44.8
	DFOV	36 / 69 / 111 / 175	36 / 69 / 111 / 175	131	125.2	78.7
UV/IR FILTER		700±10nm	650±10nm	700±10nm	650±10nm	950±50nm
Pixel Size		3.0 μm (H) x 3.0 μm (V)	3.0 μm (H) x 3.0 μm (V)	2.1μm (H) x 2.1μm (V)	3.0 μm (H) x 3.0 μm (V)	3.0 μm (H) x 3.0 μm (V)
Pixel Output		2M (1920 * 1080)	2.6M (2048 * 1240)	8M (3840 * 2160)	2M (1600 * 1200)	1M (1280 * 800)
FRAME RATE		30 fps	30 fps	30 fps	30 fps	30 fps
ISP		NVP2600 GW5410	GW5410	GW5410	-	GW5410
De-Serializer		MAX9295A	MAX9295A	MAX9295A	MAX9295E	MAX9295A
POWER		8V - 16V	8V - 16V	9V - 15V	8V - 16V	8V - 16V
Current Consumption		Max 250mA(@12V)	Max 250mA(@12V)	Max 230mA(@12V)	Max 200mA(@5V)	Max 250mA(@12V)
OUTPUT PORTS		SINGLE	SINGLE	DUAL	SINGLE	SINGLE
OUTPUT FORMATS		RAW 12Bit	RAW 12Bit	RAW 12 Bit	YUV	RAW 8Bit or 12Bit
TRANSMISSION INTERFACE		GMSL2	GMSL2	GMSL2	GMSL2	GMSL2
OPERATION TMPE		-40 - +85 °C	-40 - +85 °C	-40 - +85 °C	-40 - +85 °C	-40 - +85 °C
STORAGE TEMP		-40 - +125 °C	-40 - +125 °C	-40°C - +95°C	-40 - +125 °C	-40 - +125 °C
WATERPROOF		IP69K	IP69K	IP69K	IP67	IP69K