

EV8C-OOM1-RHCF

MIPI over Type-C 8MP Fixed Focus Camera Module

HIGHLIGHT FEATURES

- MIPI over Type-C Interface, 8MP @30fps (Max. Resolution)
- Support HDR, ISP inside
- Dynamic Range: 120dB
- Lens FOV (D/H/V) : 107°/100°/67°
- Platform Support: NVIDIA Jetson Orin, Intel
- Complies with CE/FCC Class A

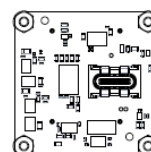
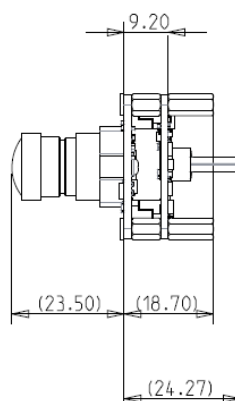
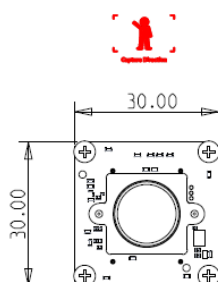
SPECIFICATIONS

Model Name	EV8C-OOM1-RHCF
Module Type	MIPI over Type-C 8MP Fixed Focus Camera Module
Resolution (Max.)	8MP
Frame Rate (Max. Resolution)	30fps
Output I/F	MIPI over Type-C
Sensor	onsemi AR0822
Shutter	Rolling
Video Format	YUV422
Power Consumption	Approximate 1W (YUV422 @Max. Resolution)
Operating Temperature	-30°C ~ 70°C
Sensor Size	1/1.8"
Pixel Size	2.0 um
Chroma Type	Rolling
Lens Type	Fixed focus (M12)
Dimension (W x L x H/mm)	30 x 30 x 48 42 x 42 x 49 (Housing)
Lens FOV (D / H / V)	107°/100°/67°
Platform Support	NVIDIA Jetson Orin, Intel
Housing	Board Level, Housing
Features	HDR
Warranty	3 Years
Note	For detailed resolution and frame rate combined application, please refer to product datasheet. For more platform support, please contact our local sales.

ORDER INFO.

P/N	Description
EV8C-OOM1-RHCF-11	MIPI over Type-C 8MP Fixed Focus Camera Module (MIPI over Type-C cable included)
EV8C-OOM1-RHCF-21	MIPI over Type-C 8MP Fixed Focus Camera Module, with Housing (MIPI over Type-C cable included)
7W2000000300	MIPI over Type-C cable, 1M

MECHANICAL DRAWING



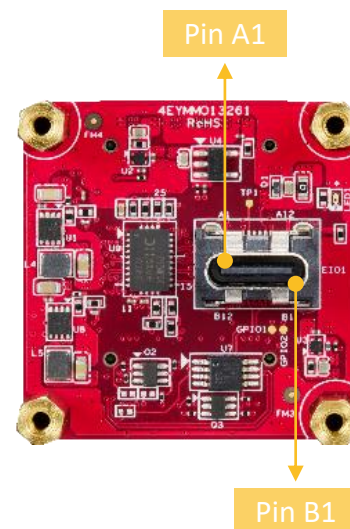
TOLERANCE: $\pm 0.30\text{mm}$
UNIT: mm

RESOLUTION MATRIX

Resolution	YUV422	MJPEG
3840*2160	30/25/10/5 fps	N/A
2592*1944	30/25/10/5 fps	N/A
2560*1440	30/25/10/5 fps	N/A
1920*1080	60/50/30/25/10/5 fps	N/A
1280*720	60/50/30/25/10/5 fps	N/A
640*480	120/100/90/60/30/25/10/5 fps	N/A

CONNECTOR PIN ASSIGNMENT

Pin #	Pin Name	Description
A1	GND	Ground
A2	CAM_D1_P	CSI Data 1
A3	CAM_D1_N	CSI Data 1
A4	CAM_3V3	+3.3V
A5	CAM_MCLK	Camera Master Clock
A6	CAM_CK_P	CSI Clock
A7	CAM_CK_N	CSI Clock
A8	CAM_RST#	RST# or PWREN#
A9	CAM_3V3	+3.3V
A10	CAM_D2_N	CSI Data 2
A11	CAM_D2_P	CSI Data 2
A12	GND	Ground
B1	GND	Ground
B2	CAM_D3_P	CSI Data 3
B3	CAM_D3_N	CSI Data 3
B4	CAM_3V3	+3.3V
B5	CAM_SDA	I2C Data (3.3V)
B6	GPIO2	NA
B7	GPIO1	NA
B8	CAM_SCL	I2C Clock (3.3V)
B9	CAM_3V3	+3.3V
B10	CAM_D0_N	CSI Data 0
B11	CAM_D0_P	CSI Data 0
B12	GND	Ground

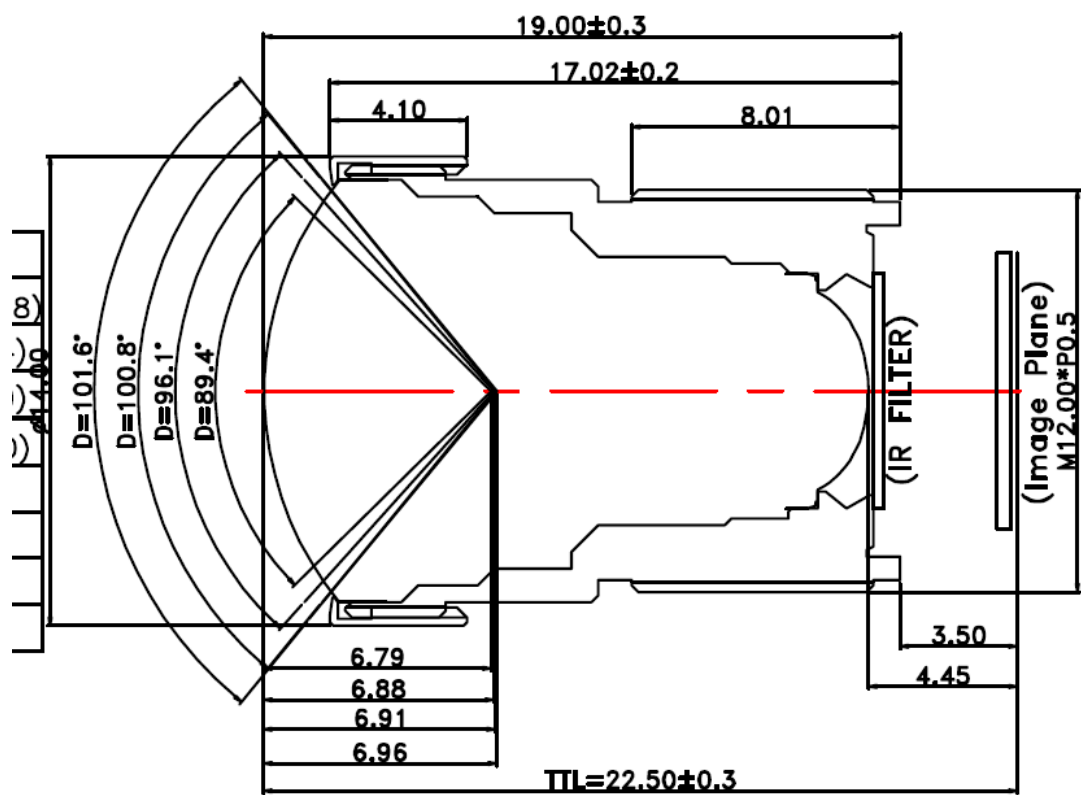


PLATFORM SUPPORT

Platform	Processor
NVIDIA Jetson	Jetson AGX Orin Jetson Orin NX Jetson Orin Nano
Intel	Alder Lake 12 th Raptor Lake 13 th Core™ Ultra processor

For more information please contact our local sales.

LENS SPEC.



Items	Specification
F No.	2.6
Focal Length	3.25mm
Lens Structure	4G2P
Mount	M12 x P0.5 (S-Mount)

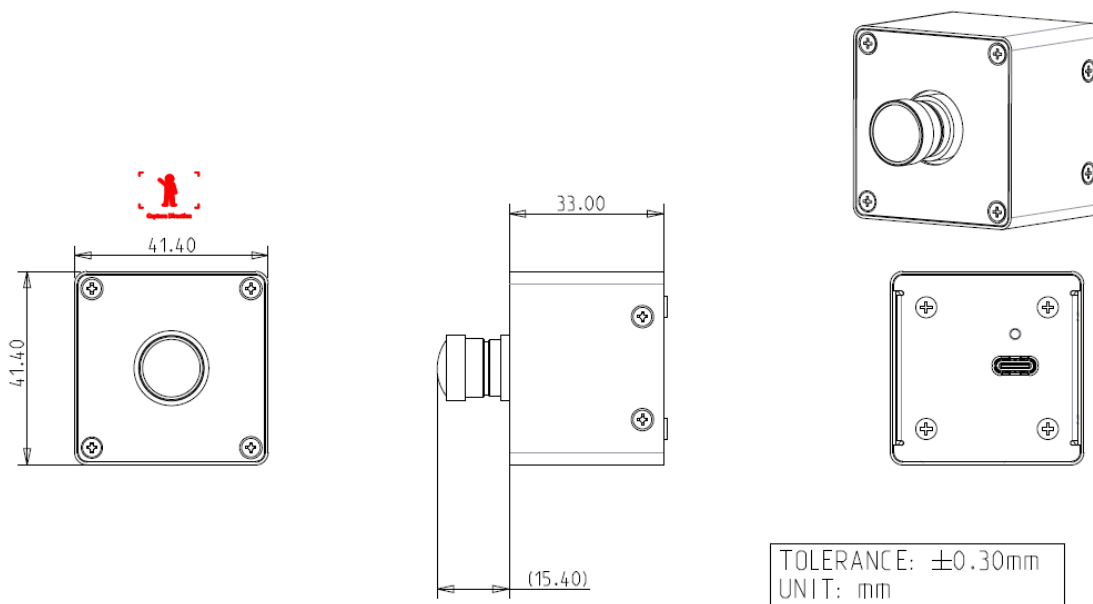
CABLE APPEARANCE (7W2000000300)



PRODUCT APPEARANCE (HOUSING)



MECHANICAL DRAWING (HOUSING)



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