

EV8M-OOM1-RHCF

MIPI CSI-2 8MP Fixed Focus Camera Module

HIGHLIGHT FEATURES

- MIPI CSI-2 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, Raspberry Pi
- Complies with CE / FCC Class A

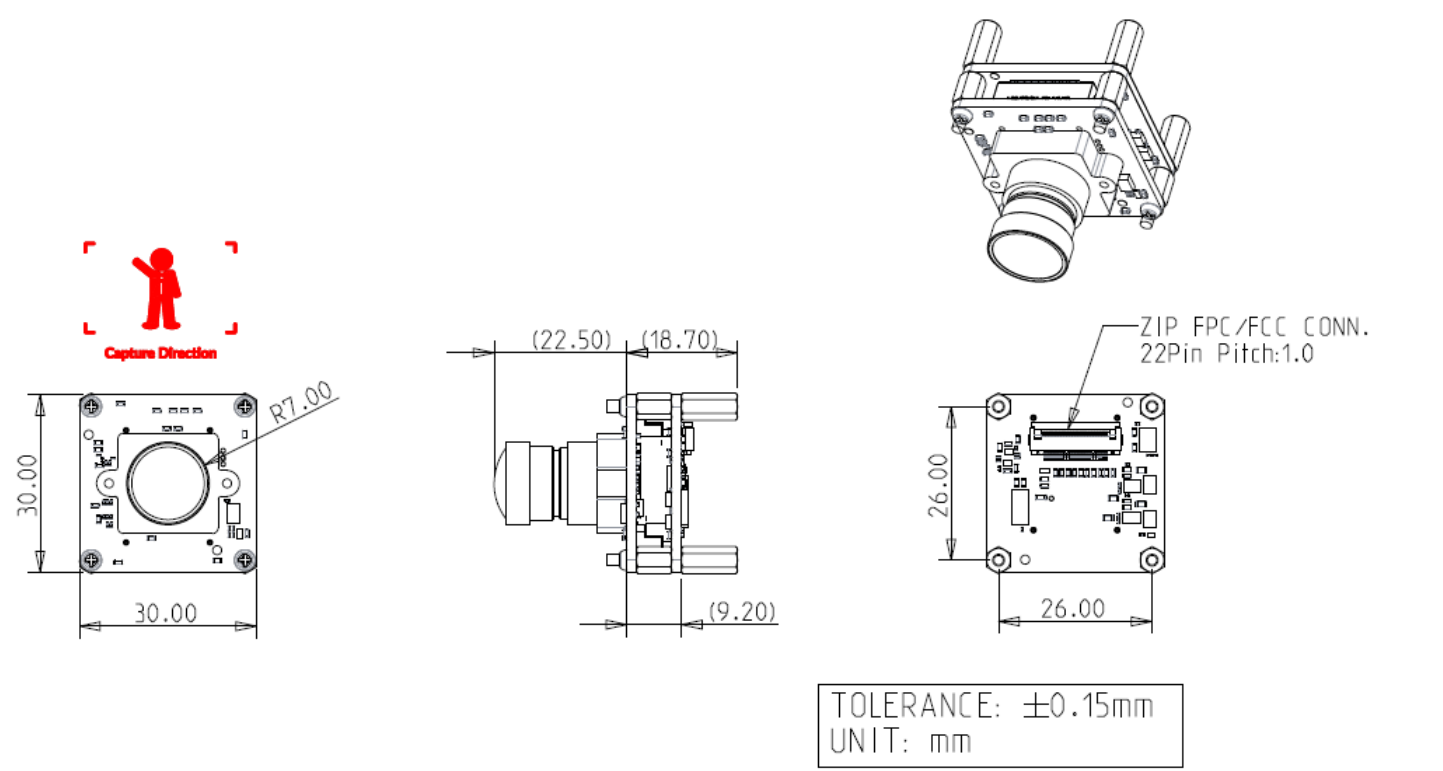
SPECIFICATIONS

Model Name	EV8M-OOM1-RHCF
Module Type	MIPI CSI-2 8MP Fixed Focus Camera Module
Resolution (Max.)	8MP
Frame Rate (Max. Resolution)	30fps
Output I/F	MIPI CSI-2
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	Color
Lens Type	Fixed Focus (M12)
Dimension (W x L x H/mm)	30 x 30 x 41 39 x 39 x 41 (Open Front Housing)
Lens FOV (D / H / V)	107° / 100° / 67°
Platform Support	NVIDIA Jetson Orin, Intel, Raspberry Pi
Housing	Board Level, Open Front 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
EV8M-OOM1-RHCF-11	MIPI CSI-2 8MP Fixed Focus Camera Module (FFC cable included)
EV8M-OOM1-RHCF-21	MIPI CSI-2 8MP Fixed Focus Camera Module, Open Front Housing (FFC cable included)
7W7000000060	FFC cable 15cm, 22 pins, pitch 0.5mm

MECHANICAL DRAWING

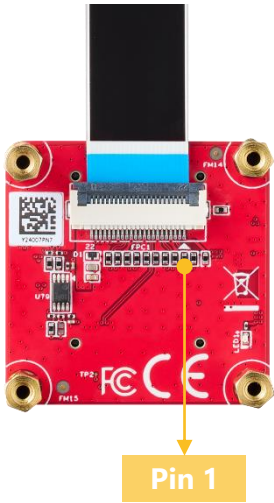


RESOLUTION MATRIX

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

CONNECTOR PIN ASSIGNMENT

Pin #	Pin Name	Description
1	GND	Ground
2	CAM_D0_N	CSI Data 0
3	CAM_D0_P	CSI Data 0
4	GND	Ground
5	CAM_D1_N	CSI Data 1
6	CAM_D1_P	CSI Data 1
7	GND	Ground
8	CAM_CK_N	CSI Clock
9	CAM_CK_P	CSI Clock
10	GND	Ground
11	CAM_D2_N	CSI Data 2
12	CAM_D2_P	CSI Data 2
13	GND	Ground
14	CAM_D3_N	CSI Data 3
15	CAM_D3_P	CSI Data 3
16	GND	Ground
17	CAM_PWDN	Camera Power-down
18	CAM_MCLK	Camera Master Clock
19	GND	Ground
20	CAM_SCL	I2C Clock (3.3V)
21	CAM_SDA	I2C Data (3.3V)
22	CAM_3V3	+3.3V



PLATFORM SUPPORT

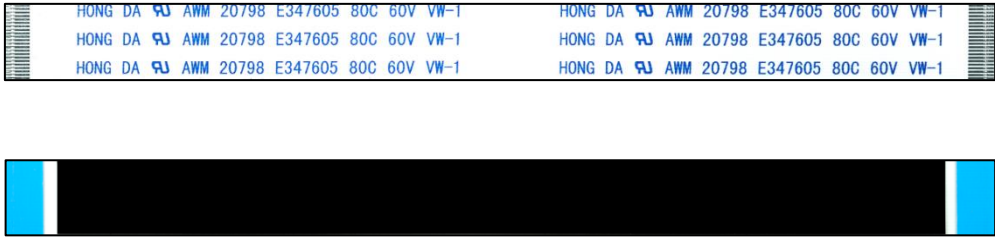
Platform	Processor
NVIDIA Jetson	Jetson AGX Orin Jetson Orin NX Jetson Orin Nano
Intel	Alder Lake 12 th Raptor Lake 13 th Core™ Ultra processor

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)

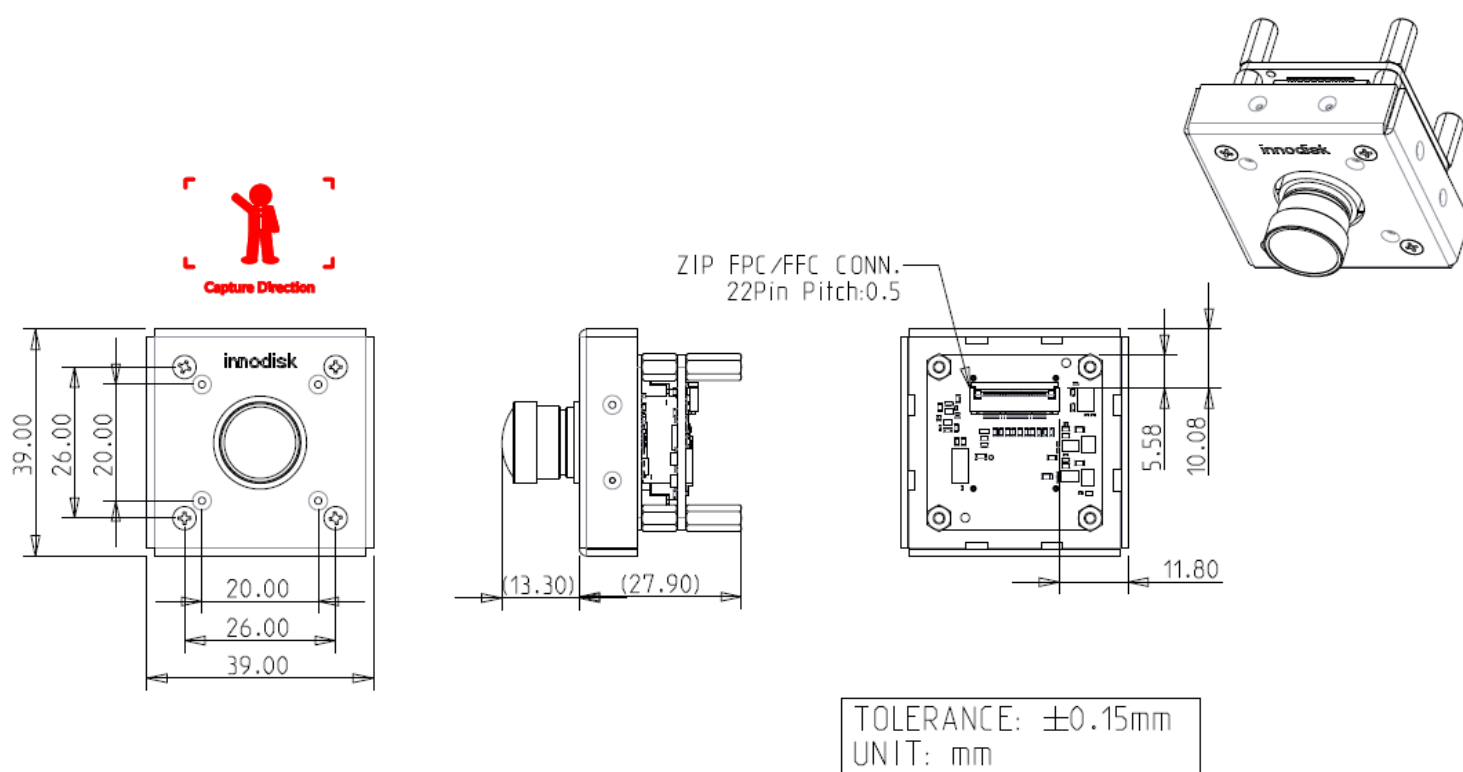
CABLE APPEARANCE (7W7000000060)



PRODUCT APPEARANCE (OPEN FRONT HOUSING)



MECHANICAL DRAWING (OPEN FRONT HOUSING)



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