

## EV2M-OOM1

### MIPI CSI-2 2MP Fixed Focus Camera Module

#### HIGHLIGHT FEATURES

- MIPI CSI-2 Interface, 1920x1200 @60fps (Max Resolution)
- Support Global Shutter, ISP inside
- Lens FOV (D/H/V) : 104°/86°/46°
- Platform Support: NVIDIA Jetson Orin, Intel
- Complies with CE/ FCC Class A

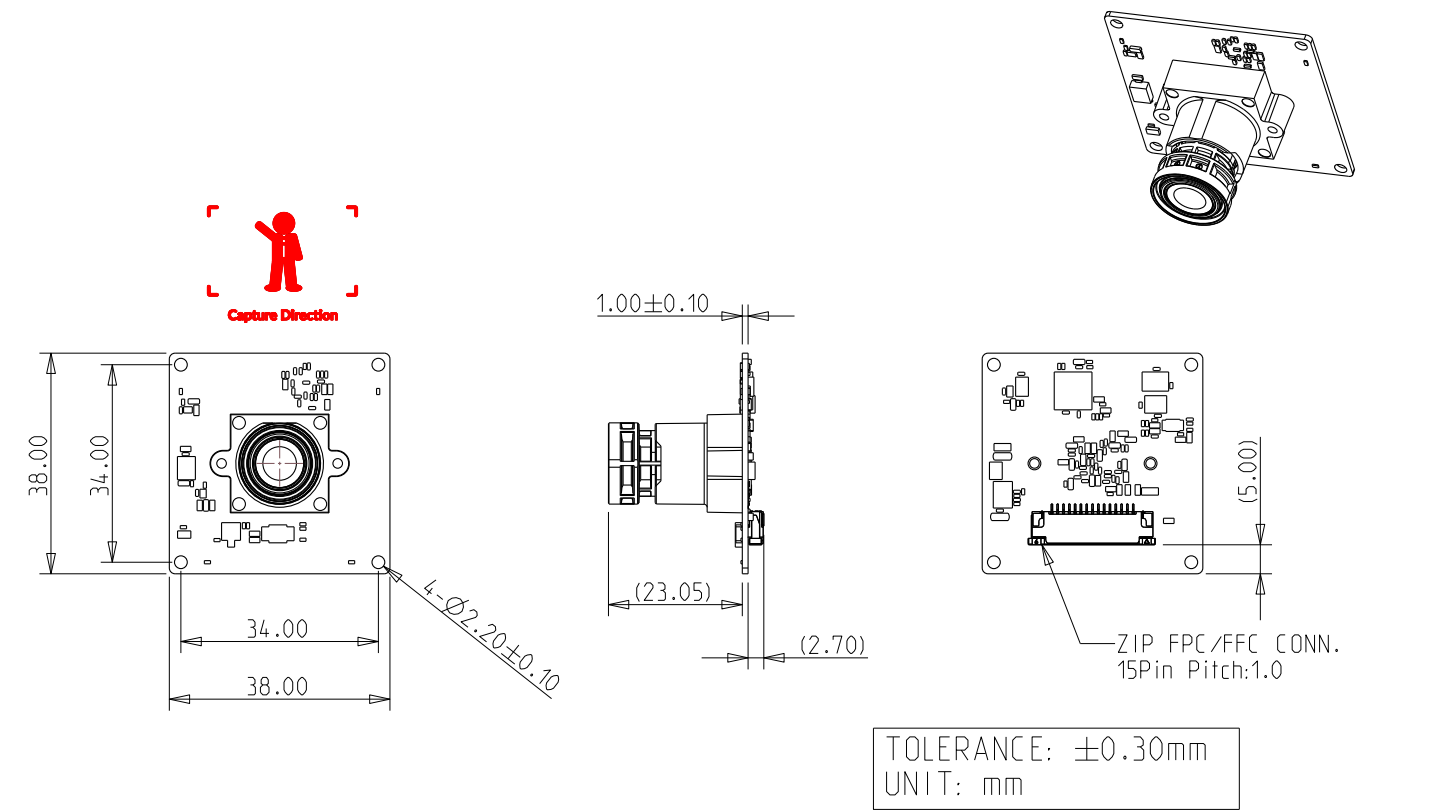
#### SPECIFICATIONS

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Model Name               | EV2M-OOM1                                                                                                  |
| Module Type              | MIPI CSI-2 2MP Fixed Focus Camera Module                                                                   |
| Resolution (Max.)        | 1920x1200 @60fps                                                                                           |
| Output I/F               | MIPI CSI-2                                                                                                 |
| Sensor                   | Onsemi AR0234                                                                                              |
| Shutter                  | Global                                                                                                     |
| Video Format             | YUV2                                                                                                       |
| Power Consumption        | Approximate 1W (YUV2 @Full Resolution )                                                                    |
| Operating Temperature    | -30°C ~ 70°C                                                                                               |
| Sensor Size              | 1/2.6"                                                                                                     |
| Pixel Size               | 3µm                                                                                                        |
| Lens Type                | Fixed Focus (M12)                                                                                          |
| Dimension (W x L x H/mm) | 38 x 38 x 22                                                                                               |
| Lens FOV (D / H / V)     | 104° / 86° / 46°                                                                                           |
| OS / Platform Support    | NVIDIA Jetson Orin; Intel 12th -13th & Core Ultra<br>(For more information please contact our local sales) |
| Warranty                 | 3 Years                                                                                                    |

ORDER INFO.

| P/N               | Description                                                                       |
|-------------------|-----------------------------------------------------------------------------------|
| EV2M-OOM1-UHCA-E1 | MIPI CSI-2 2MP Fixed Focus Camera Module<br>(MIPI CSI-2 FFC & FPC Cable Included) |
| 7W7000000020      | MIPI CSI-2 FFC cable,15cm,15pins pitch 1mm                                        |
| 7W7000000030      | MIPI CSI-2 FPC cable,15cm,15pins pitch 1mm to 22pins 0.5mm                        |

MECHANICAL DRAWING

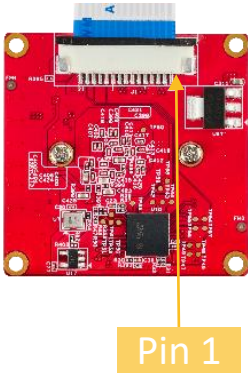


RESOLUTION MATRIX

| Resolution | YUV2 (Raw Data)                  | MJPEG |
|------------|----------------------------------|-------|
| 1920*1200  | 60/ 50/ 30/ 25 fps               | N/A   |
| 1920*1080  | 60/ 50/ 30/ 25 fps               | N/A   |
| 1280*720   | 120/ 100/ 90/ 60/ 50/ 30/ 25 fps | N/A   |
| 640*480    | 120/ 100/ 90/ 60/ 50/ 30/ 25 fps | 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_PWDN | Camera Power-down   |
| 12    | CAM_MCLK | Camera Master Clock |
| 13    | CAM_SCL  | I2C Clock (3.3V)    |
| 14    | CAM_SDA  | I2C Data (3.3V)     |
| 15    | CAM_3V3  | +3.3V               |

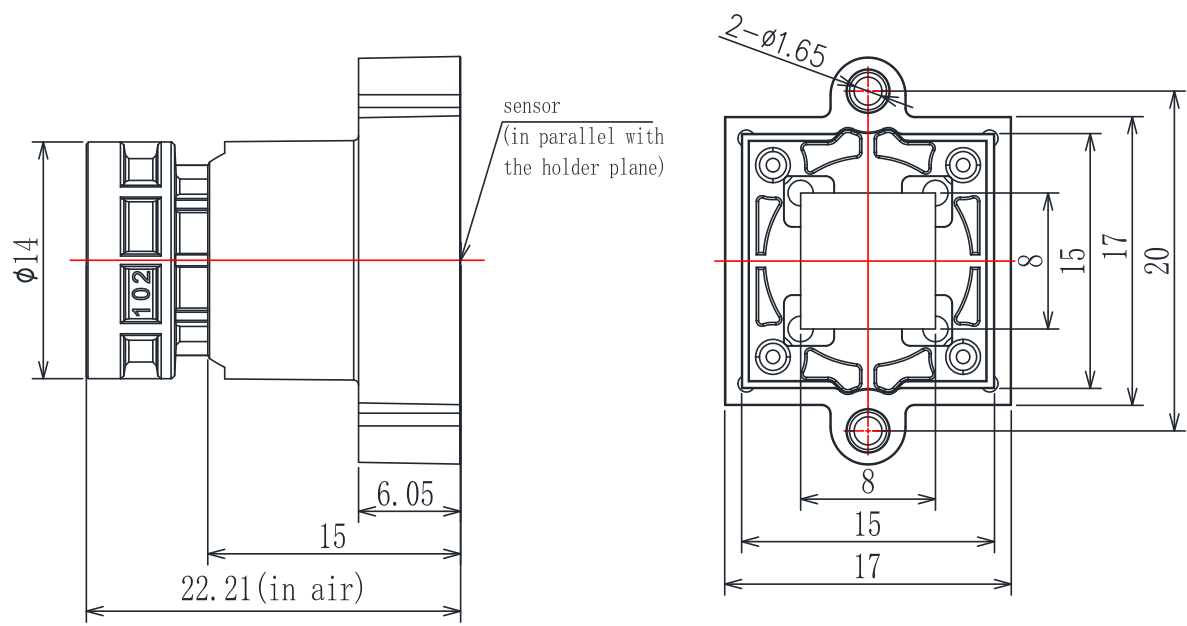


# PLATFORM SUPPORT

| Platform      | Processor                                                                            |
|---------------|--------------------------------------------------------------------------------------|
| NVIDIA Jetson | Jetson AGX Orin<br>Jetson Orin NX<br>Jetson Orin Nano                                |
| INTEL         | Alder Lake 12 <sup>th</sup><br>Raptor Lake 13 <sup>th</sup><br>Core™ Ultra processor |

(For more information please contact our local sales)

LENS SPEC.



| Items          | Specification      |
|----------------|--------------------|
| F no.          | 2.2                |
| Focal length   | 3.89               |
| Lens structure | 1G3P               |
| Mount          | M12*P0.5 (S-Mount) |

CABLE APPEARANCE (7W7000000020)



CABLE APPEARANCE (7W7000000030)

