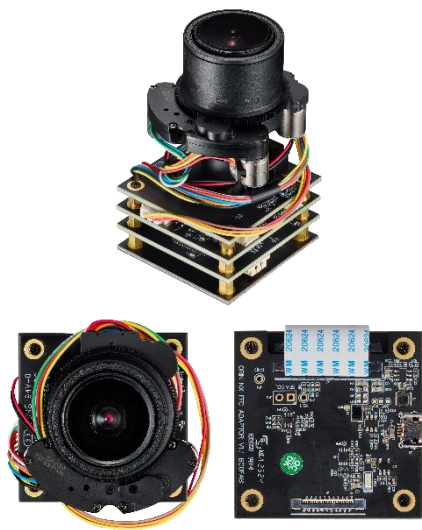




## EV2M-ZOM1-GSCV

MIPI CSI-2 2.3MP Varifocal Camera Module

### HIGHLIGHT FEATURES

- MIPI CSI-2 Interface, 2.3MP @60fps (Max. Resolution)
- Support Global Shutter, ISP Inside
- Lens FOV (D / H / V) : (W) 128° / 103° / 60°, (T) 39° / 33° / 21°
- Platform Support : NVIDIA Jetson Orin

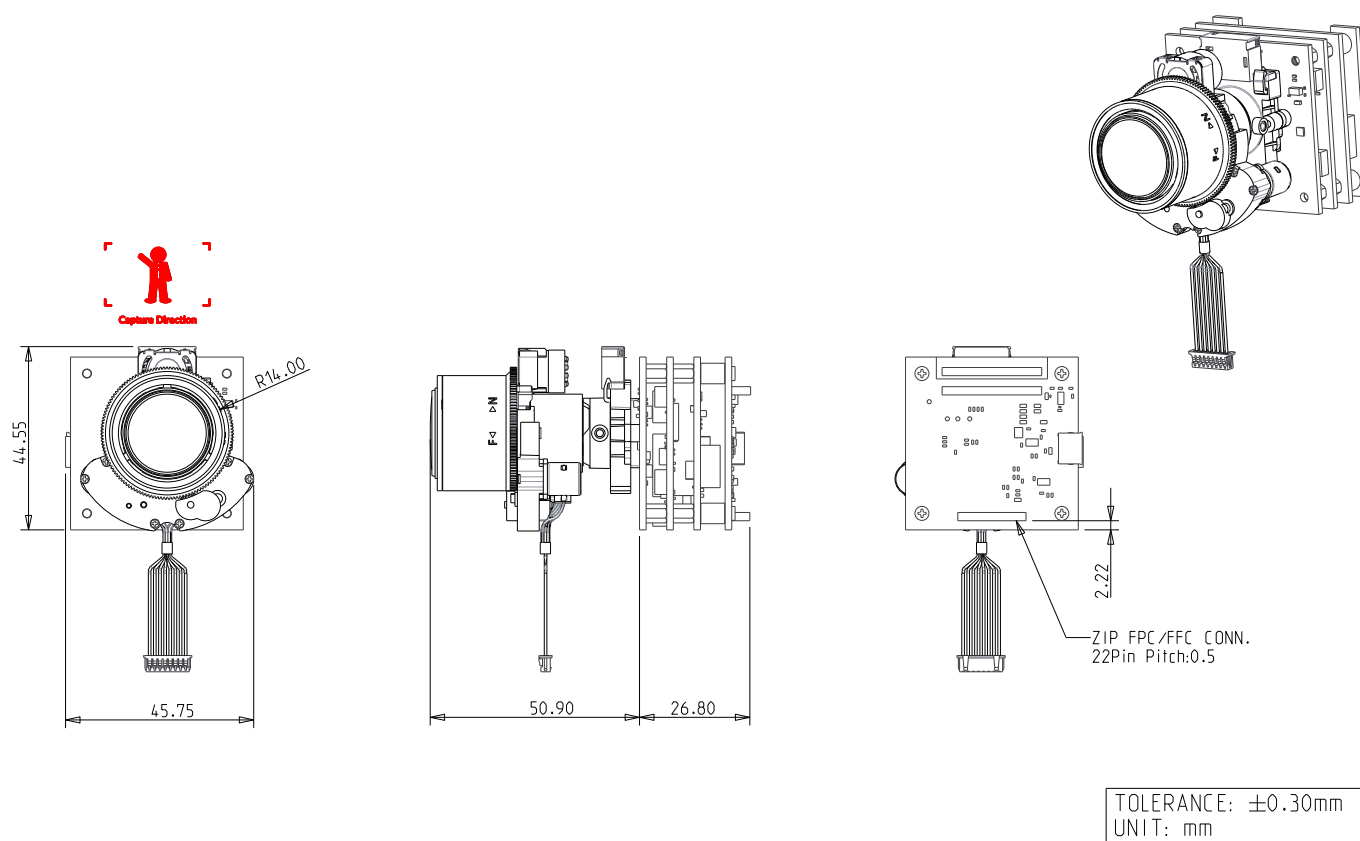
### SPECIFICATIONS

|                              |                                                                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name                   | EV2M-ZOM1-GSCV                                                                                                                                                |
| Module Type                  | MIPI CSI-2 2.3MP Varifocal Camera Module                                                                                                                      |
| Resolution (Max.)            | 2.3MP                                                                                                                                                         |
| Frame Rate (Max. Resolution) | 60fps                                                                                                                                                         |
| Output I/F                   | MIPI CSI-2                                                                                                                                                    |
| Sensor                       | onsemi AR0234                                                                                                                                                 |
| Shutter                      | Global                                                                                                                                                        |
| Video Format                 | YUV422                                                                                                                                                        |
| Power Consumption            | Approximate 2W (YUV422 @Max. Resolution )                                                                                                                     |
| Operating Temperature        | -20°C ~ 65°C                                                                                                                                                  |
| Sensor Size                  | 1/2.6"                                                                                                                                                        |
| Pixel Size                   | 3.0μm                                                                                                                                                         |
| Chroma Type                  | Color                                                                                                                                                         |
| Lens Type                    | Varifocal                                                                                                                                                     |
| Dimension (W x L x H/mm)     | 42 x 42 x 77.7                                                                                                                                                |
| Lens FOV (D / H / V)         | W : 128° / 103° / 60°<br>T : 39° / 33° / 21°                                                                                                                  |
| Platform Support             | NVIDIA Jetson Orin                                                                                                                                            |
| Housing                      | Board Level                                                                                                                                                   |
| Features                     | --                                                                                                                                                            |
| Warranty                     | 3 Years                                                                                                                                                       |
| Note                         | For detailed resolution and frame rate combined application, please refer to product datasheet.<br>For more platform support, please contact our local sales. |

## ORDER INFO.

| P/N               | Description                                                                 |
|-------------------|-----------------------------------------------------------------------------|
| EV2M-ZOM1-GSCV-11 | MIPI CSI-2 2.3MP Varifocal Camera Module<br>(MIPI CSI-2 FFC cable included) |

## MECHANICAL DRAWING



## RESOLUTION MATRIX

| Resolution  | YUV422                     | MJPEG |
|-------------|----------------------------|-------|
| 1920 x 1200 | 60 / 50 / 30 / 25fps       | N/A   |
| 1920 x 1080 | 100 / 60 / 50 / 30 / 25fps | N/A   |
| 1280 x 960  | 100 / 60 / 50 / 30 / 25fps | N/A   |
| 1280 x 720  | 100 / 60 / 50 / 30 / 25fps | N/A   |
| 1024 x 768  | 100 / 60 / 50 / 30 / 25fps | N/A   |
| 640 x 480   | 100 / 60 / 50 / 30 / 25fps | 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               |

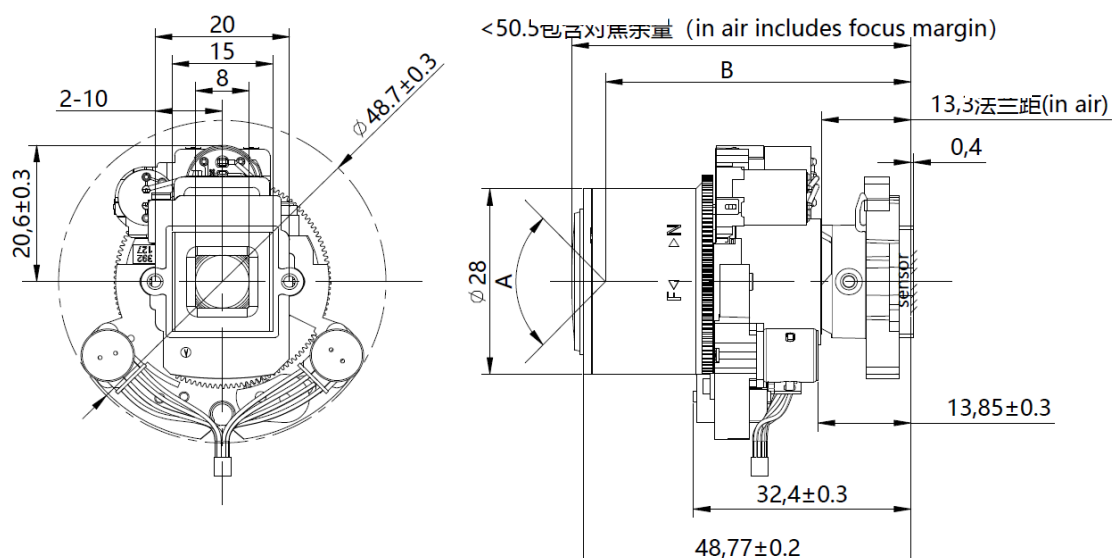


Pin 1

## PLATFORM SUPPORT

| Platform                                             | Processor                                             |
|------------------------------------------------------|-------------------------------------------------------|
| NVIDIA Jetson                                        | Jetson AGX Orin<br>Jetson Orin NX<br>Jetson Orin Nano |
| For more information please contact our local sales. |                                                       |

## LENS SPEC.



| Items          | Specification     |
|----------------|-------------------|
| F No.          | 1.86 ~ 3.32 ± 5%  |
| Focal Length   | 3.5 ~ 9.85mm ± 3% |
| Lens Structure | 9G                |
| Mount          | 14mm              |

## CABLE APPEARANCE



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