



LEOPARD IMAGING INC

LI-TX2B-OV10650YUV-GMSL2-X

Data Sheet

Key Features

- Nvidia Jetson TX2 SOM included
- Support up to six GMSL2 cameras
- YUV output without compression
- OmniVision CMOS 1.7MP Image Sensor OV10650
- Lens: FOV H 60
- 1824 x 940 resolution
- Support HDR
- OmniVision OV495 ISP included
- GMSL2 serializer and De-serializer included
- Connector: FAKRA Z TYPE
- Length of Fakra cable: 3 meters
- Multiple length Fakra cables supported
- M12 lens
- TX2 driver binary and source code included
- Part#:
(2cam) **LI-TX2B-OV10650YUV-GMSL2-D**
(4cam) **LI-TX2B-OV10650YUV-GMSL2-Q**
(6cam) **LI-TX2B-OV10650YUV-GMSL2-H**

BOM

#	Items	QTY
1	LI-TX2-BOX1-GMSL2	1
2	FAK-SMZSMZ 3M	2,4 or 6
3	LI-OV10650-495-GMSL2	2,4 or 6
4	LI-PS12-02	1



Application

- IoT camera
- Machine vision
- Video analytics

Lens Spec

- Model: M127B0818W
- Focal length: 8 mm
- Aperture, F/#: 1.8
- Built in 650nm IR cut filter
- FOV (D/H/V): 70 °/ 60 °/29 °
- Distortion: < -7.7%
- Mount: M12 x 0.5



Leopard Imaging Inc.

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LI-TX2-BOX1-GMSL2

Technical details

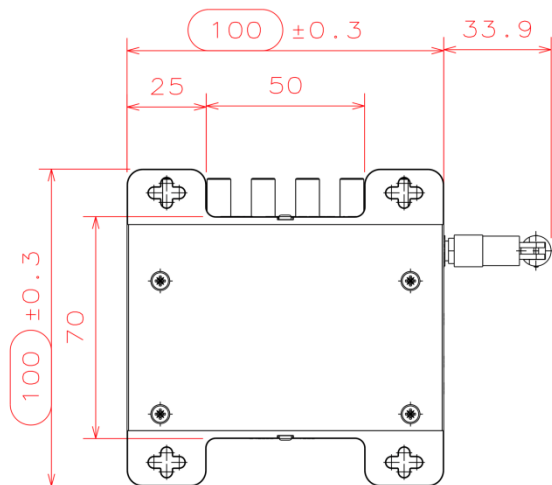
- Nvidia Jetson TX2 SOM Included
- 6 GMSL2 interfaces
- 1 Micro SD card interface
- 1 Micro HDMI connector
- 1 Power socket (DC 12V)
- 1 RJ45 Ethernet connector
- 1 USB 2.0 micro B interface
- REC, RST and PWR buttons included
- Heat sink and fan included
- WIFI Antenna included
- Connector: FAKRA Z TYPE
- Includes 4 mounting holes
- Weight: 500g
- Size: 100mm x 100mm x 69mm
- Part#: **LI-TX2-BOX1-GMSL2**



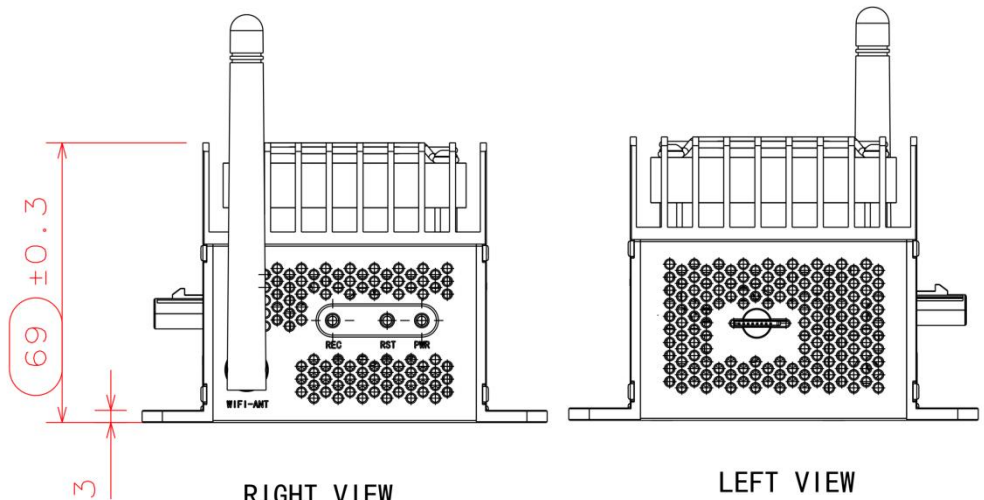
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Dimensions (with box)

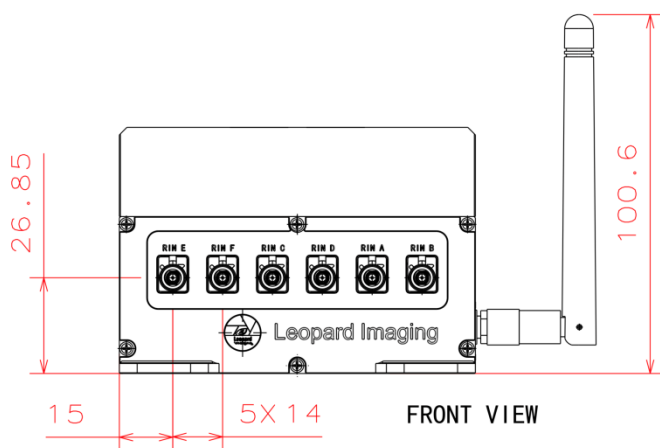


UP VIEW

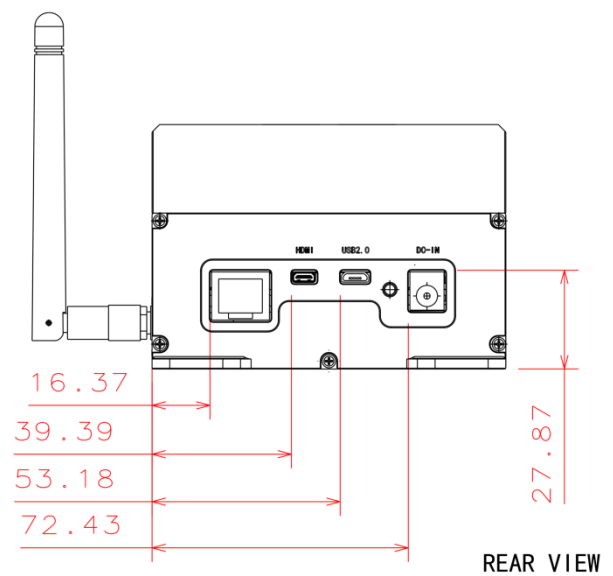


RIGHT VIEW

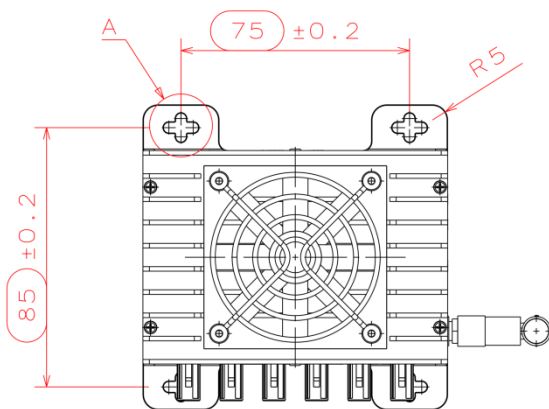
LEFT VIEW



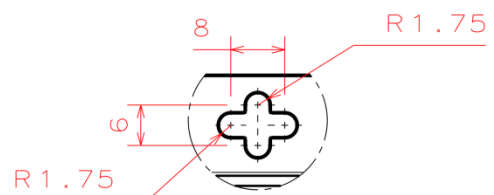
FRONT VIEW



REAR VIEW



DOWN VIEW



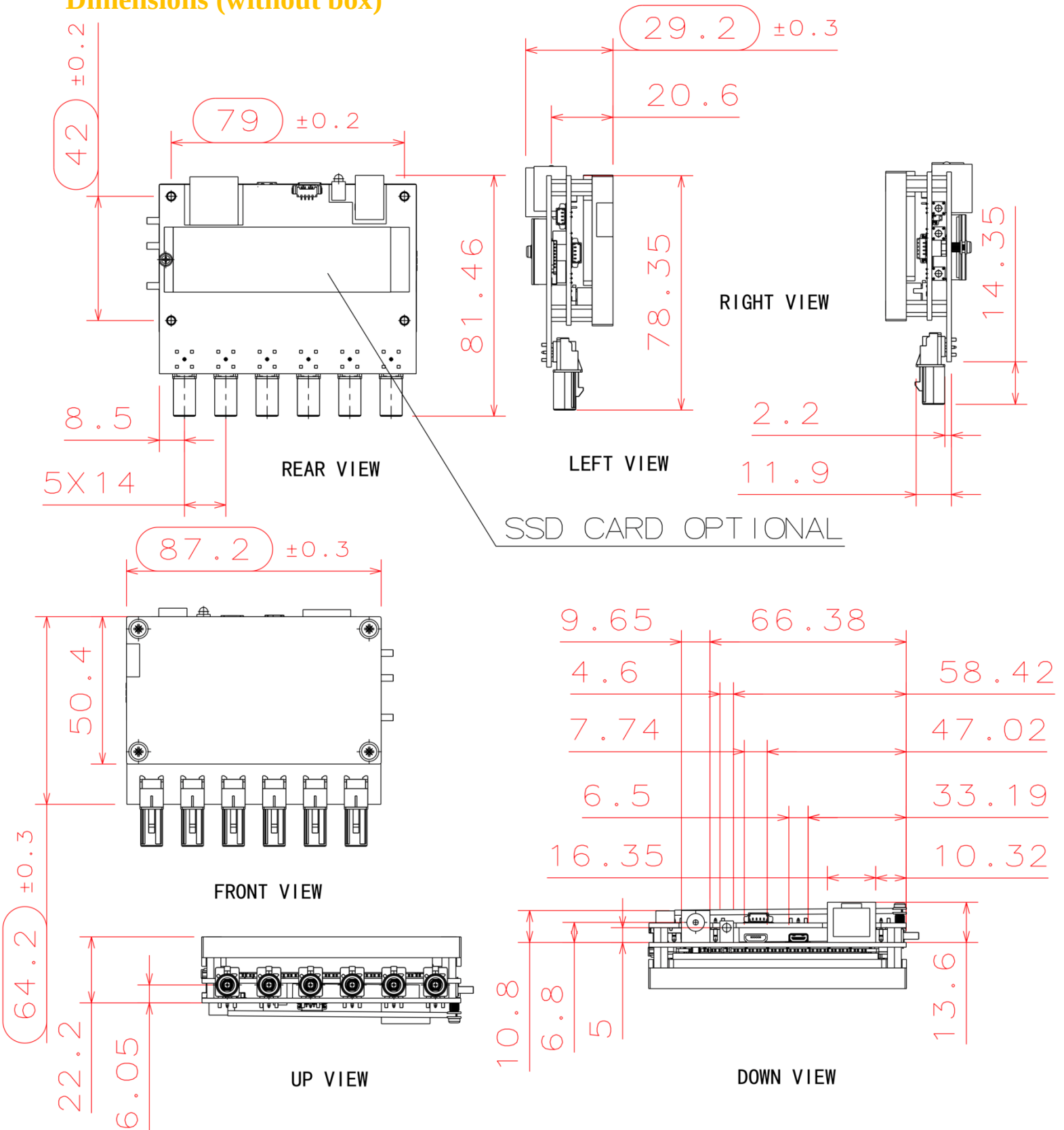
DETAIL A



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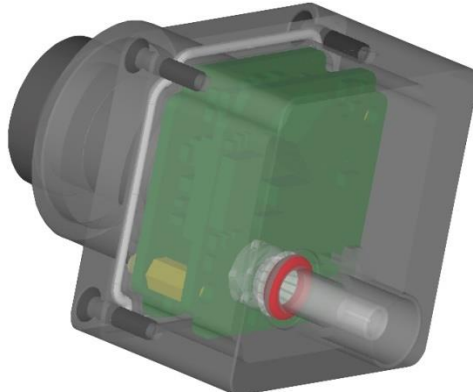
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Dimensions (without box)



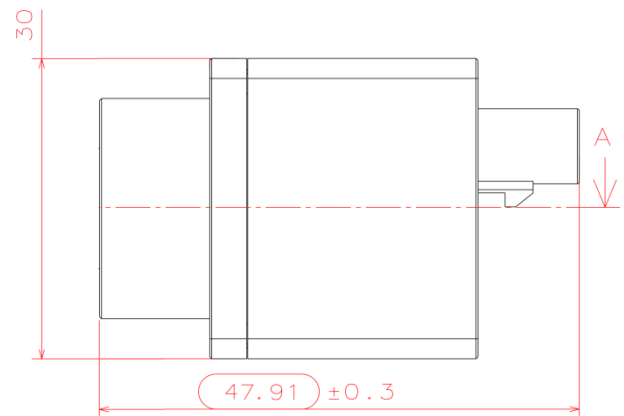
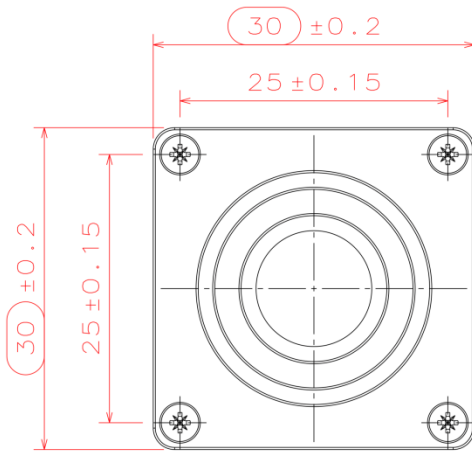
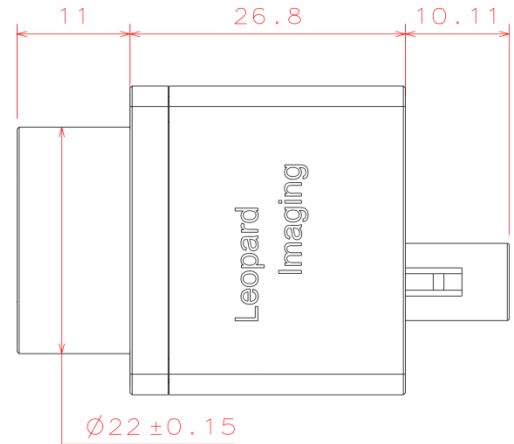
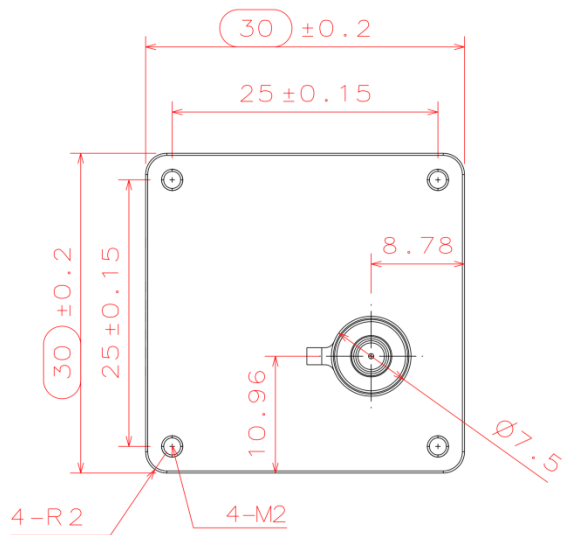
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Camera Spec	
Image Sensor	OmniVision CMOS 1.7MP Image Sensor OV10650
Optical format	1/2.09"
Number of active pixels	1824 (H) x 940 (V)
Pixel size	4.2um (H) x 4.2um (V)
Color or Mono	Color
FOV	60 (H)
ISP	Includes OmniVision OV495 ISP
Format	YUV output without compression
WDR	Support
Interface	GMSL2 Serial interface
Lens mount	M12
Weight	45 g
Operation Temp	-40 ~ 105 °C
Storage Temp	-40 ~ 125 °C
Water proof : IP67 (Up to IP69K) Lens must be glued	
▪ Metal Housing ▪ Water-proof M12 lens ▪ Sealed Gasket (White) ▪ Sealed O-ring (Red)	
Cable Connector	
▪ Housing Connector- FAKRA Z Type ▪ Cable length: 3 meters Support single Coax Cable transmit up to 12 meters ▪ Cable Part#: FAK-SMZSMZ-0008 FAKRA type connectors	



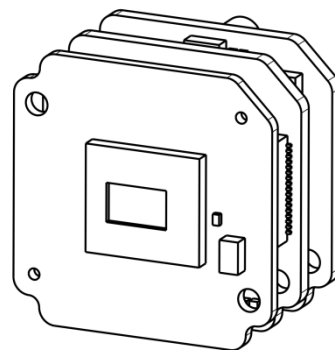
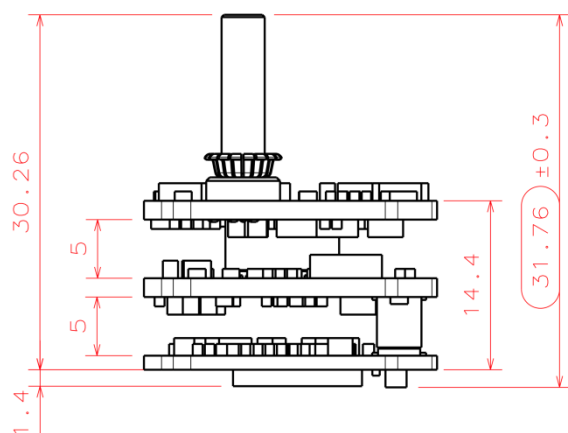
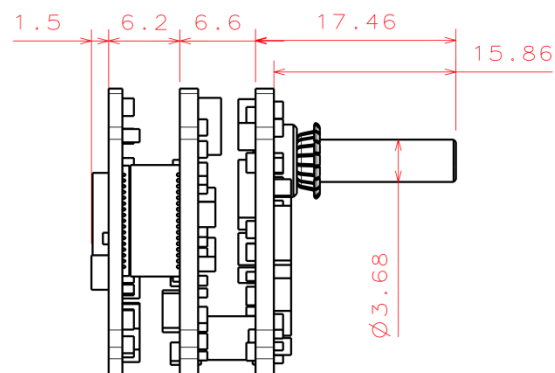
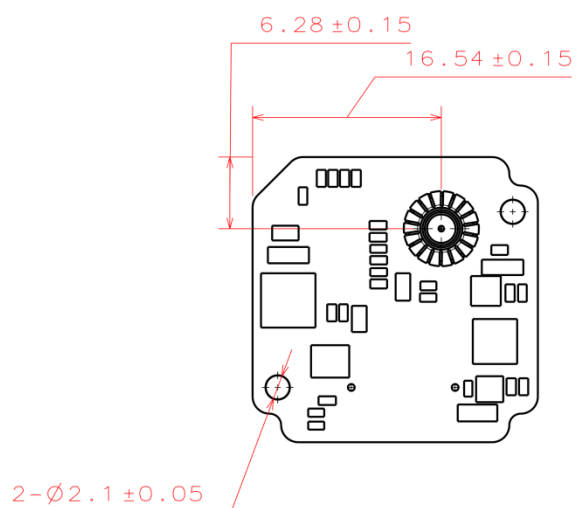
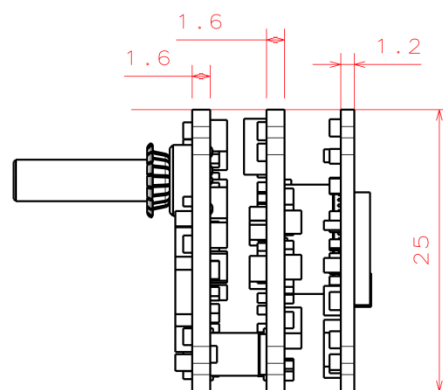
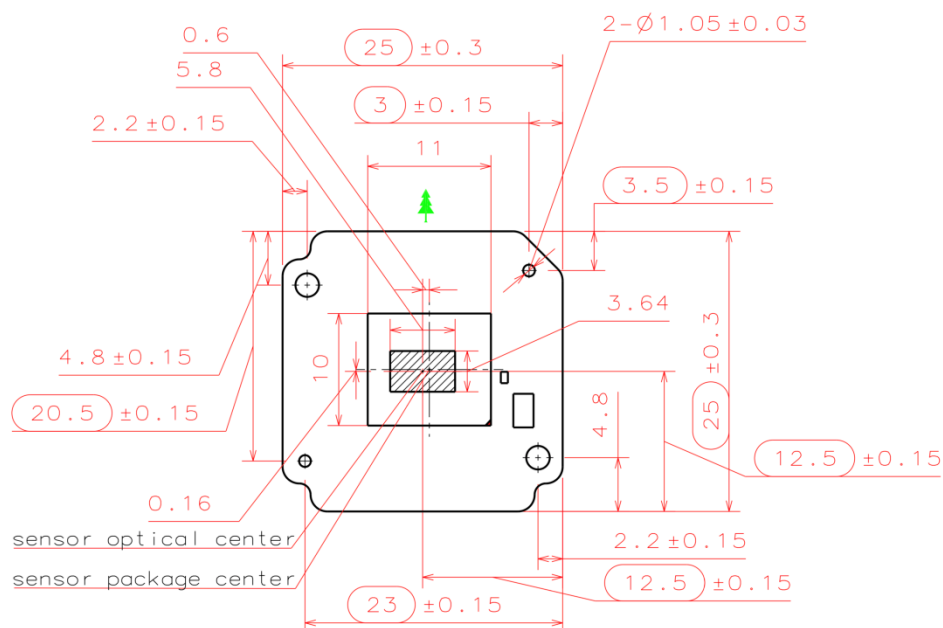
Dimensions



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Camera boards Dimensions



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Revision History

Revision	Description	Release Date
1.0	First Release	25. Dec. 2018
1.1	Support 2, 4 or 6 cameras	8. Mar. 2019



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