



LEOPARD IMAGING INC

LI-TX2B-IMX412-FPDLINKIII-xxxH-X

Data Sheet

Key Features

- Nvidia Jetson TX2 SOM included
- Support up to six FPDLINKIII cameras
- Sony Diagonal 7.857mm (Type 1/2.3) 12.3MP CMOS Image Sensor IMX412
- Pixel size: 1.55 um x 1.55 um
- Lens: FOV H 67°
- 4056 x 3040 resolution
- TI953 serializer and TI954 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#:
 - (2 cam) LI-TX2B-IMX412-FPDLINKIII-xxxH-D
 - (4 cam) LI-TX2B-IMX412-FPDLINKIII-xxxH-Q
 - (6 cam) LI-TX2B-IMX412-FPDLINKIII-xxxH-H

BOM

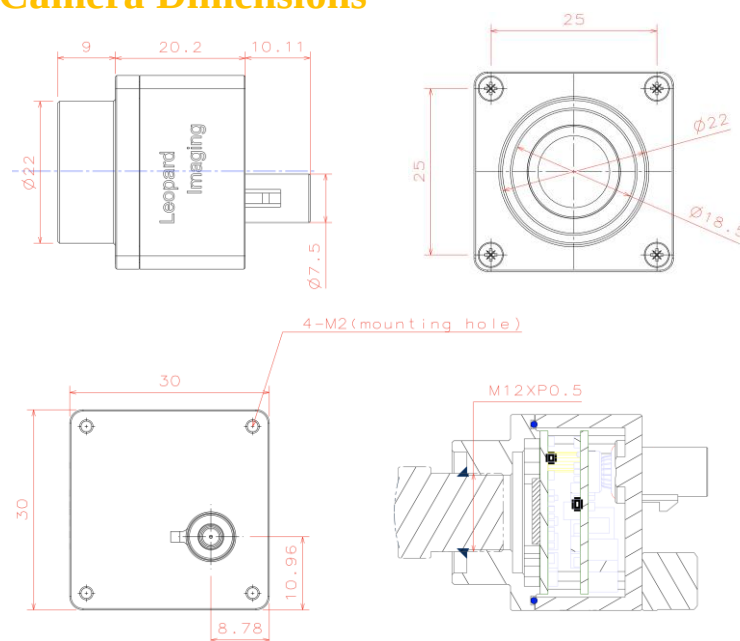
#	Items	QTY
1	LI-TX2-BOX1-FPDLINKIII	1
2	FAK-SMZSMZ 3M	2,4 or 6
3	LI-IMX412-FPDLINKIII-xxxH	2,4 or 6
4	LI-PS12-02	1



Application

- IoT camera
- Machine vision
- 12MP video applications

Camera Dimensions



Leopard Imaging Inc.

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Ordering Information

Part#: LI-TX2B-IMX412-FPDLINKIII-xxxH-X

Note:

xxxH - 067H: FOV H 67 °

LI-TX2B-IMX412-FPDLINKIII-067H-X



Lens: LC033A
Lens EFL: 5.83 mm
F/#: 1.8 +/- 5%
FOV(D): 89°
FOV(H): 67°
FOV(V): 49°
Mount: M12



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LI-TX2-BOX1-FPDLINKIII

Technical details

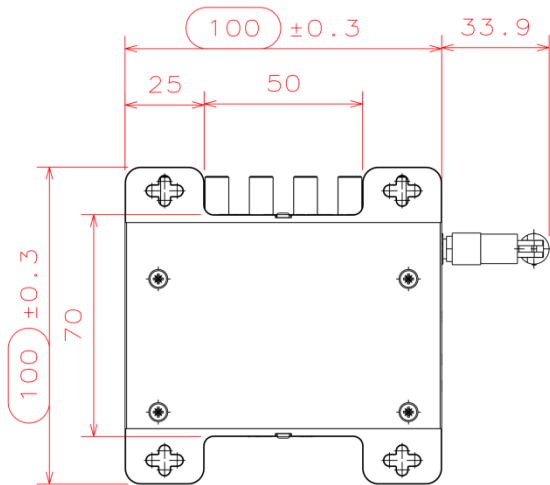
- Nvidia Jetson TX2 SOM included
- 6 FPDLINKIII (TI954) interfaces
- 1 Micro SD card interface
- 1 Micro HDMI connector
- 1 Power socket (DC 12V)
- 1 RJ45 Ethernet connector
- 1 USB 2.0 micro B interface
- REC, RST and PWR buttons included
- Heat sink and fan included
- WIFI Antenna included
- Connector: FAKRA Z TYPE
- Includes 4 mounting holes
- Weight: 500g
- Size: 100mm x 100mm x 69mm
- Part#: **LI-TX2-BOX1-FPDLINKIII**



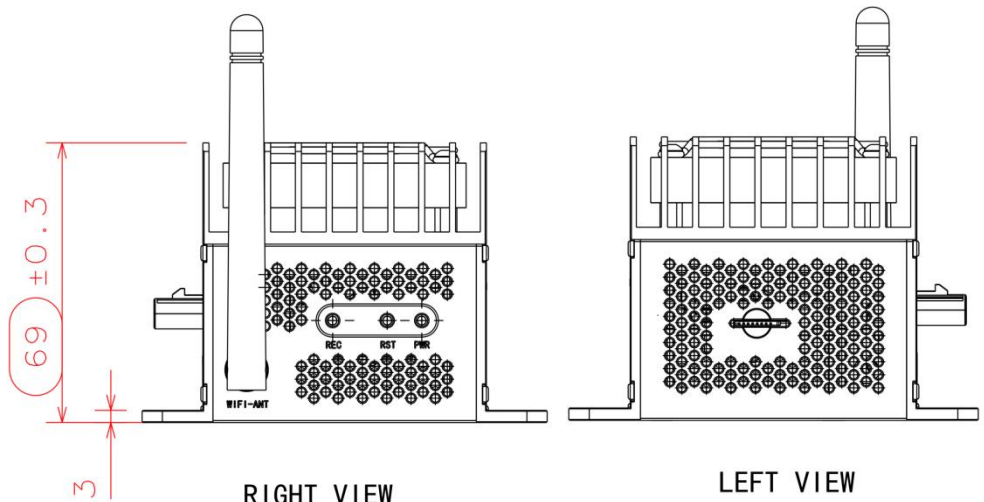
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Dimensions (with box)

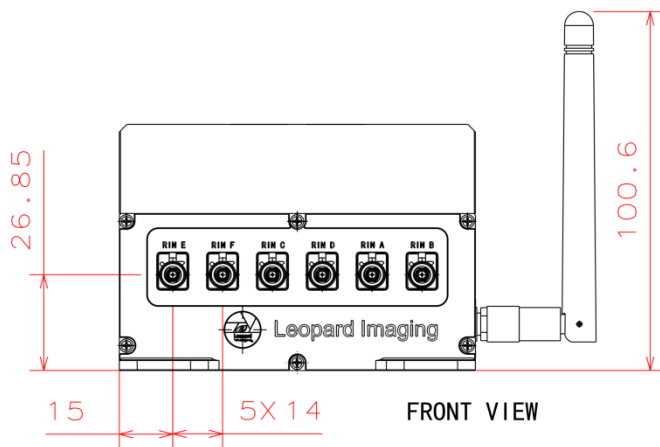


UP VIEW

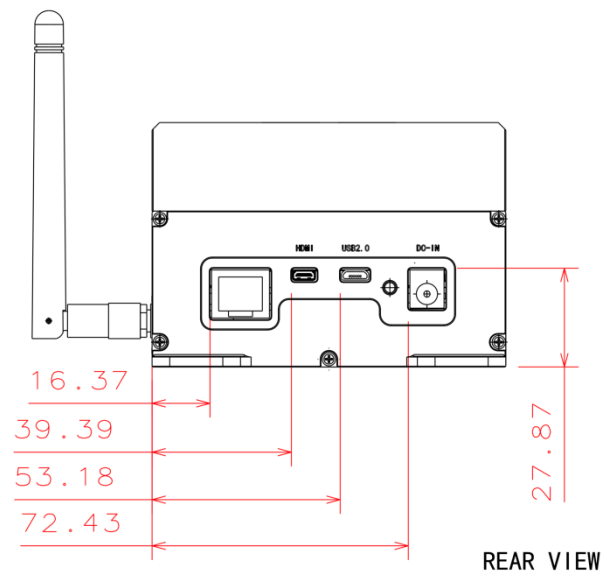


RIGHT VIEW

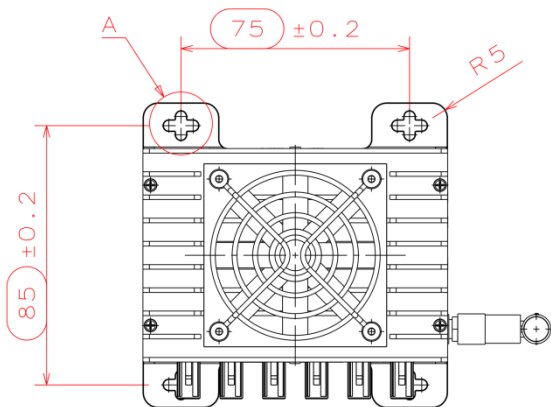
LEFT VIEW



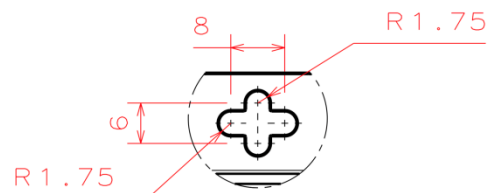
FRONT VIEW



REAR VIEW



DOWN VIEW



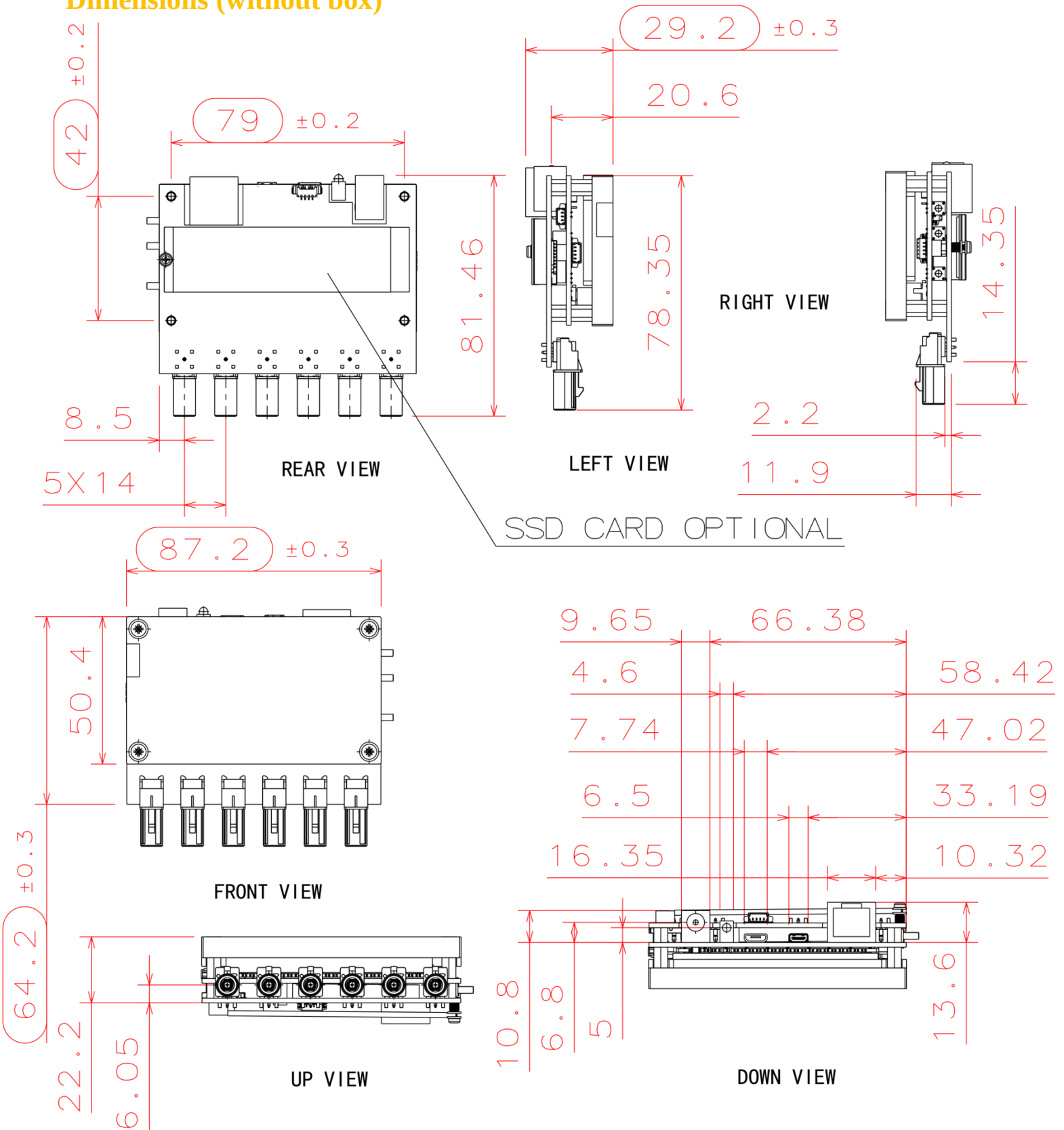
DETAIL A



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Dimensions (without box)

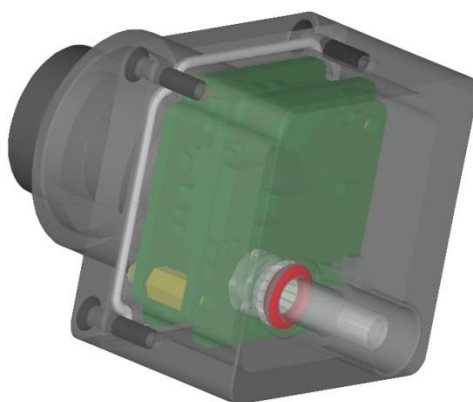


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LI-IMX412-FPDLINKIII



Camera Spec	
Image Sensor	Sony Diagonal 7.857mm (Type 1/2.3) 12.3MP CMOS Image Sensor IMX412
Optical format	1/2.3"
Number of active pixels	4056H x 3040V
Pixel size	1.55um (H) x 1.55um (V)
Color or Mono	Color
FOV	67 (H)
Format	RAW data output without compression
Interface	FPDLINKIII (TI953) Serial interface
Lens mount	M12
Weight	50 g
Operation Temp	-20 ~ 75 °C
Storage Temp	-30 ~ 80 °C
Water proof : IP67 (Up to IP69K) Lens must be glued	
▪ Metal Housing ▪ Water-proof M12 lens ▪ Sealed Gasket (White) ▪ Sealed O-ring (Red)	



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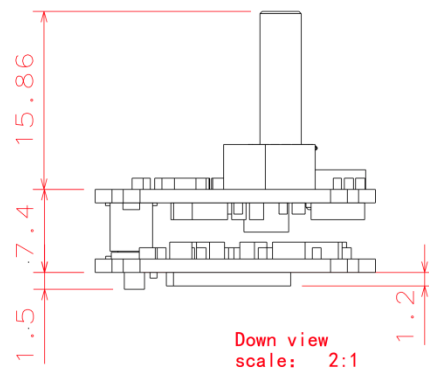
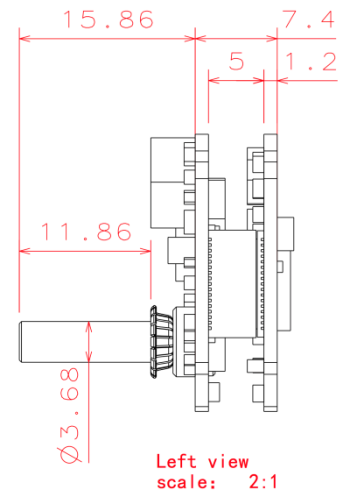
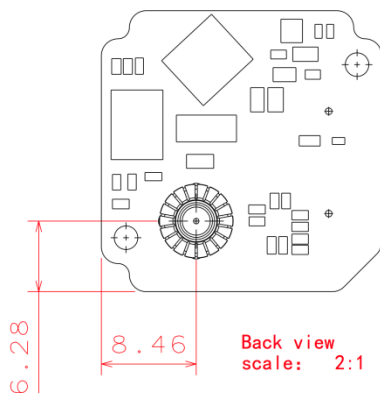
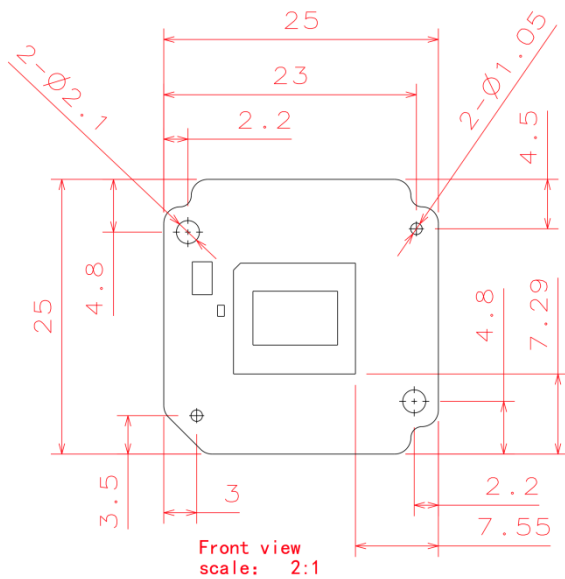
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Cable Connector

- 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



Camera board dimensions



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Revision History

Revision	Description	Release Date
1.0	First Release	08. Oct. 2019



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