LI-XAVIER-KIT-IMX377M12-X
Data Sheet

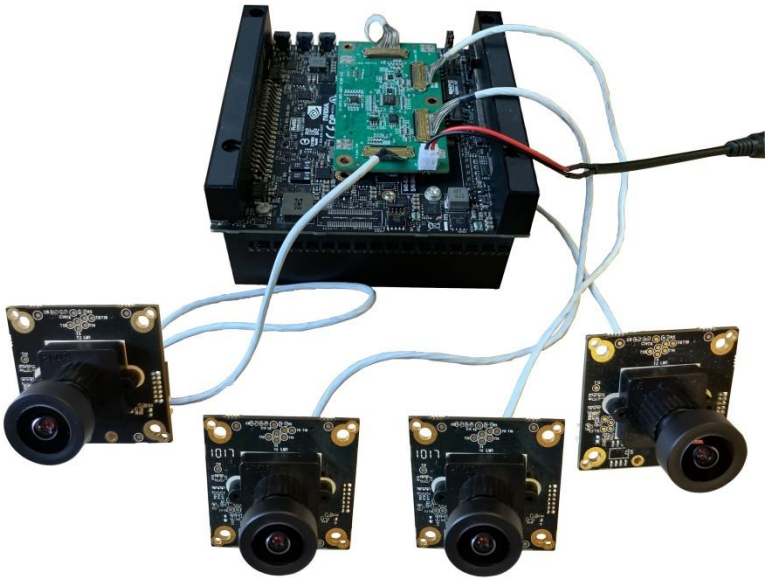
Key Features

- Compatible with Nvidia® Jetson AGX Xavier™ Developer Kit
- MIPI CSI-2 interface
- Supports up to four 4-lane cameras
- Sony Diagonal 7.81 mm (Type 1/2.3) CMOS Image Sensor IMX377CQT
- Active pixels: 4024 (H) x 3036 (V)
- Pixel size: 1.55 x 1.55 µm
- Color camera
- Length of the I-PEX cable: 300 mm
- Supports multiple length cables
- Connector Part#: 20525-030E-02
- Supports M12 x P0.5 lens
- Allows customization
- Part#:

(1 cam) LI-XAVIER-KIT-IMX377M12
(2 cam) LI-XAVIER-KIT-IMX377M12-D
(3 cam) LI-XAVIER-KIT-IMX377M12-T
(4 cam) LI-XAVIER-KIT-IMX377M12-Q

Applications

- Industrial Cameras
- Surveillance cameras



Lens Spec

- Focal Length: 3.7 mm
- Aperture, F/#: 2.8 +/- 5%
- Built in 650 nm IR cut filter
- FOV (D / H / V): 100° / 86° / 69°
- TV Distortion: -1.0 %

BOM

Nvidia AGX Xavier Developer Kit not included

#	Items	QTY
1	LI-JXAV-MIPI-ADPT-4CAM	1
2	LI-IMX377-MIPI-M12	1, 2,3 or 4
3	FAW-1233-03 cable	1, 2,3 or 4

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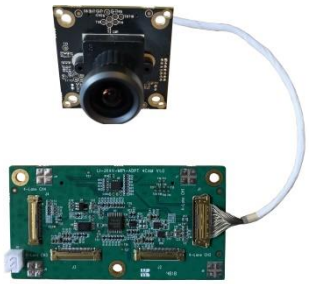
Fax: +1-408-217-1960
Email:sales@leopardimaging.com
Website: www.leopardimaging.com

LI-XAVIER-KIT-IMX377M12

BOM

#	Items	QTY
1	LI-JXAV-MIPI-ADPT-4CAM	1
2	LI-IMX377-MIPI-M12	1
3	FAW-1233-03 cable	1



LI-XAVIER-KIT-IMX377M12-D

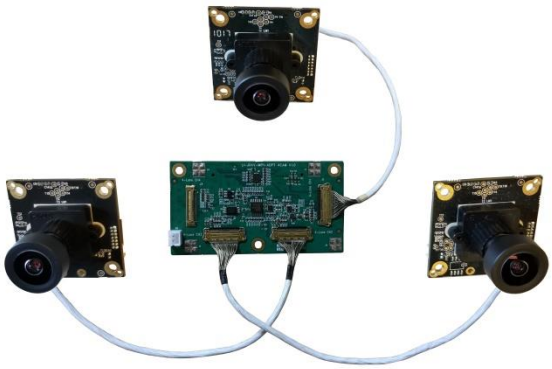
BOM

#	Items	QTY
1	LI-JXAV-MIPI-ADPT-4CAM	1
2	LI-IMX377-MIPI-M12	2
3	FAW-1233-03 cable	2

LI-XAVIER-KIT-IMX377M12-T

BOM

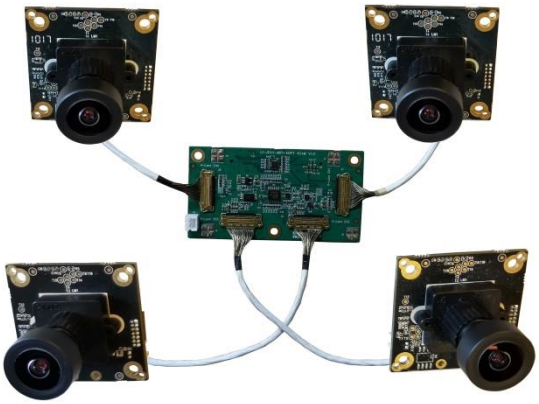
#	Items	QTY
1	LI-JXAV-MIPI-ADPT-4CAM	1
2	LI-IMX377-MIPI-M12	3
3	FAW-1233-03 cable	3



LI-XAVIER-KIT-IMX377M12-Q

BOM

#	Items	QTY
1	LI-JXAV-MIPI-ADPT-4CAM	1
2	LI-IMX377-MIPI-M12	4
3	FAW-1233-03 cable	4



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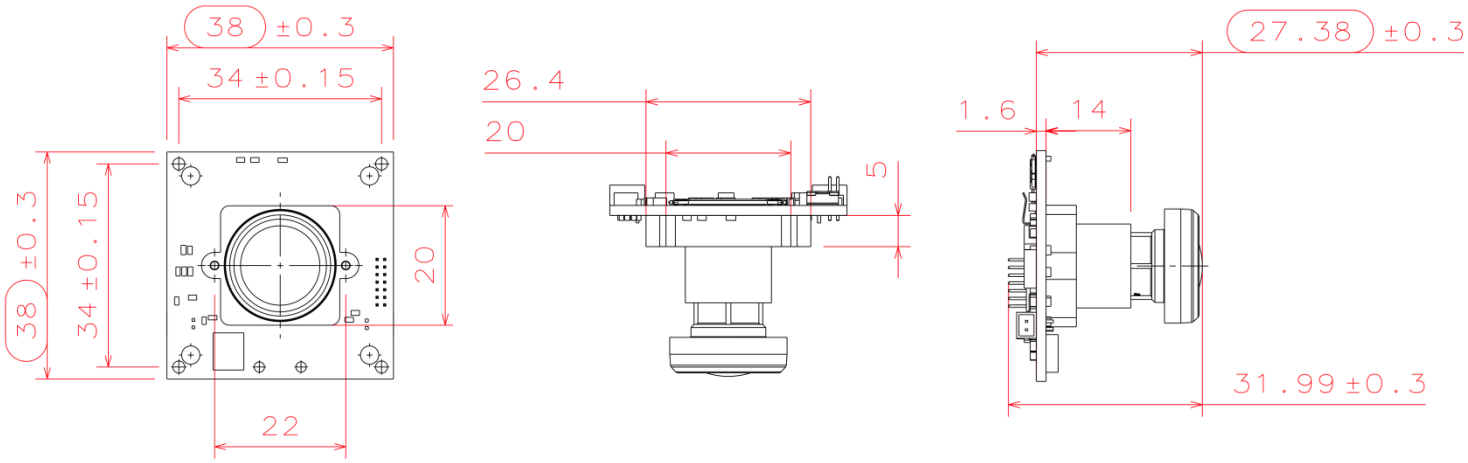
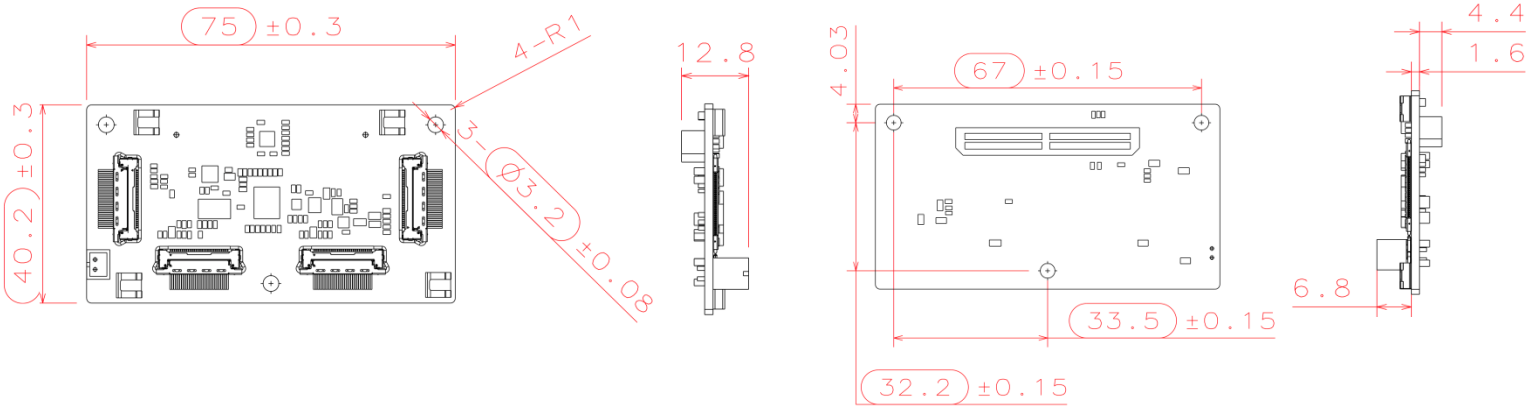
Dimensions

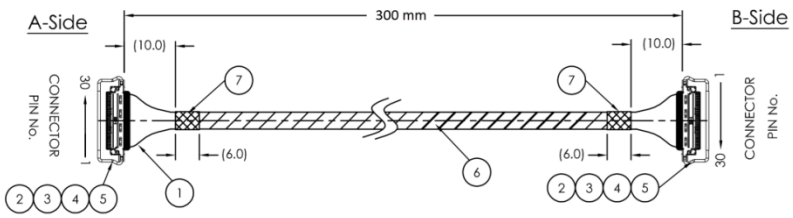
LI-IMX377-MIPI-M12



LI-JXAV-MIPI-ADPT-4CAM



FAW-1233-03



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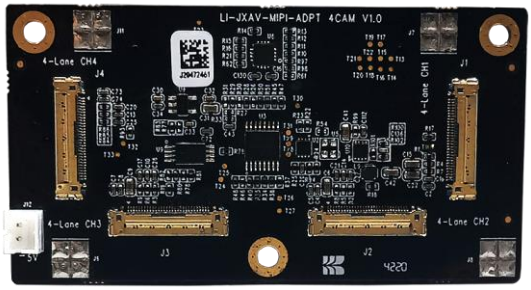
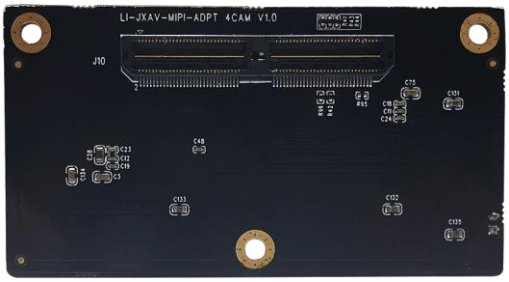
LI-JXAV-MIPI-ADPT-4CAM

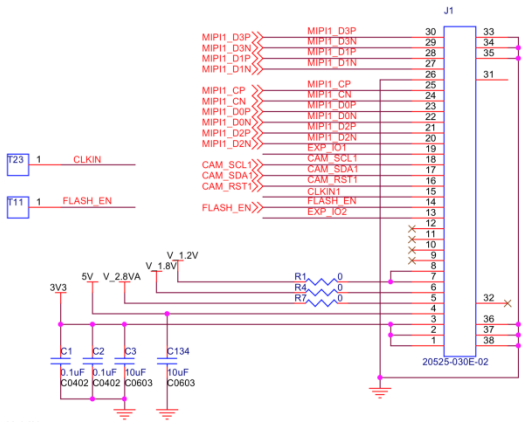




Interfaces

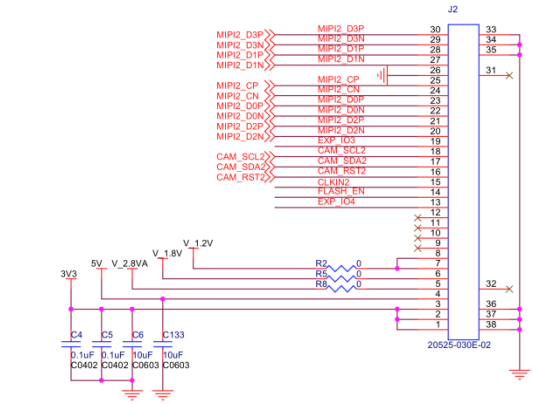
Interface J1

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX cable: FAW-1233-03 (300 mm)



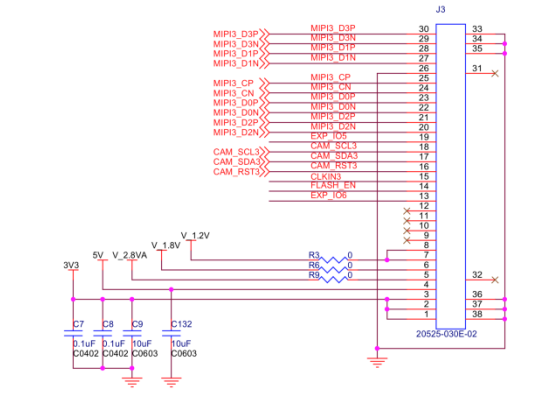
Interface J2

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX cable: FAW-1233-03 (300 mm)



Interface J3

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX cable: FAW-1233-03 (300 mm)



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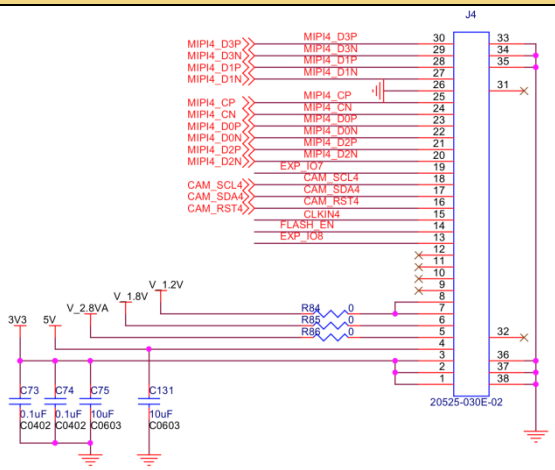
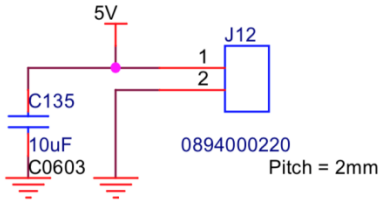
Interface J4

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX cable: FAW-1233-03 (300 mm)



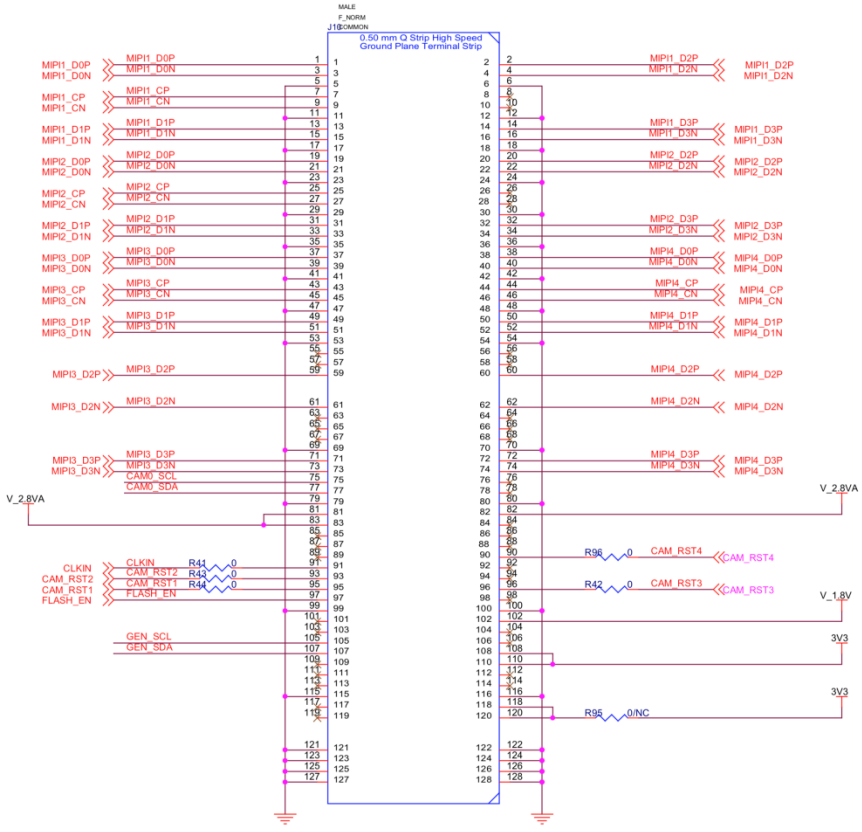
Interface J5

- Part#: 0894000220
- Number of Positions: 2
- Pitch: 2 mm



Interface J10

- Part#: QTH-060-01-L-D-A
- Number of Positions: 120
- Number of Rows: 2
- Pitch: 0.5 mm



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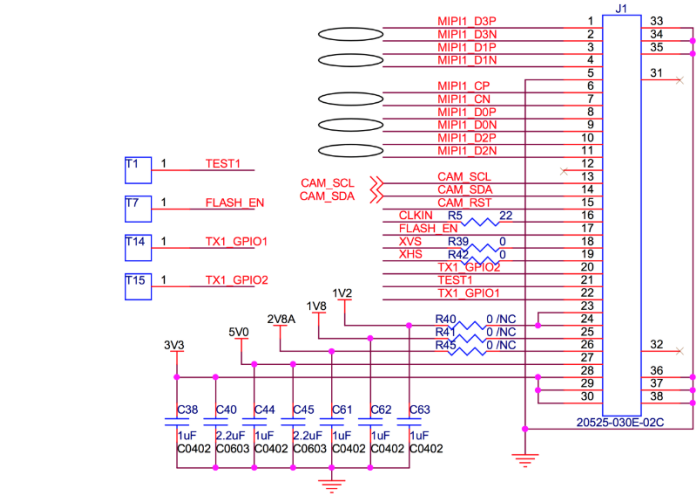
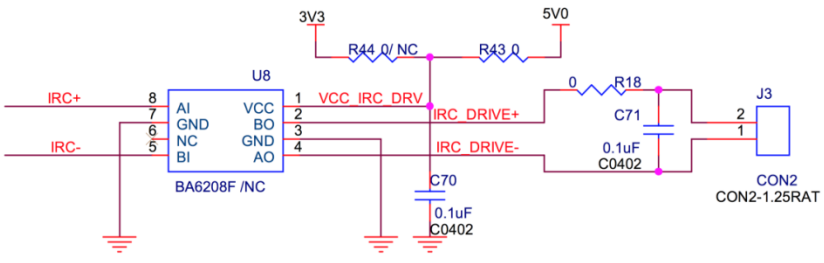
LI-IMX377-MIPI-M12

Camera Spec	
Image sensor	Sony Diagonal 7.81 mm (Type 1/2.3) CMOS Image Sensor IMX377CQT
Optical format	1/2.3"
Number of active pixels	4025 (H) x 3036 (V)
Pixel size	1.55 x 1.55 µm
Color or Mono	Color
Interface	MIPI interface
Lens mount	M12
Weight	~ 14 g
Interfaces	
Interface J1: ▪ Part#: 20525-030E-02C ▪ Number of Positions: 30 ▪ Pitch: 0.4 mm ▪ Mating I-PEX cable: FAW-1233-03 (300 mm)	
Interface J3: ▪ Part#: 1734829-2 ▪ Number of Positions: 2 ▪ Pitch: 1.25 mm	

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Revision History

Revision	Description	Release Date
1.0	First release.	11. May. 2019
1.1	Deleted info quoted from sensor spec.	26. May. 2022
1.2	Deleted lens model info.	04. Aug. 2023

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