LEOPARD IMAGING

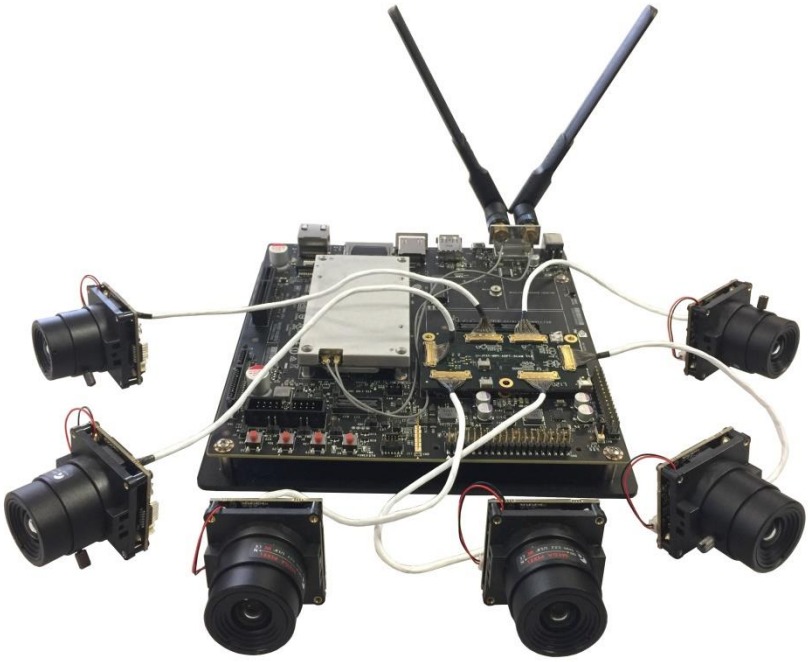
Rev 1.2

LI-JETSON-KIT-IMX274CS-X Data Sheet

Key Features

- Compatible with Nvidia Jetson TX1/TX2 Development Kit
- MIPI CSI-2 interface
- Supports up to six cameras
- Two adapter board options
  - LI-JTX1-MIPI-ADPT
    Includes three 4-lane interfaces
    Support 4K @ 60 fps
  - LI-JTX1-MIPI-ADPT-6CAM
    Includes six 2-lane interfaces
    Support 4K @ 30 fps
- Sony Diagonal 7.20 mm (Type 1/2.5) CMOS Image Sensor IMX274
- Active pixels: 3864 (H) x 2196 (V)
- Pixel size: 1.62 x 1.62 µm
- Color camera
- Length of the I-PEX cable: 300 mm
- Supports multiple length cables
- Supports IR cut switch
- Supports CS lens
- Allows customization
- Part#:

(1 cam) LI-JETSON-KIT-IMX274CS
(2 cam) LI-JETSON-KIT-IMX274CS-D
(3 cam) LI-JETSON-KIT-IMX274CS-T
(6 cam) LI-JETSON-KIT-IMX274CS-H



Lens Spec

- Focal Length: 5.0 mm
- Aperture, F/#: 2.2
- FOV (D / H / V): 87° / 76° / 43°
- TV Distortion: < -8%
- Mount Type: CS

BOM

Nvidia TX1/TX2 Development Kit not included

#	Items	QTY
1	LI-JTX1-MIPI-ADPT or LI-JTX1-MIPI-ADPT-6CAM	1
2	LI-IMX274-MIPI-CS	1,2,3 or 6
3	FAW-1233-03 cable	1,2,3 or 6

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LI-JETSON-KIT-IMX274CS

BOM

#	Items	QTY
1	LI-JTX1-MIPI-ADPT	1
2	LI-IMX274-MIPI-CS	1
3	FAW-1233-03 cable	1

LI-JETSON-KIT-IMX274CS-D

BOM

#	Items	QTY
1	LI-JTX1-MIPI-ADPT	1
2	LI-IMX274-MIPI-CS	2
3	FAW-1233-03 cable	2

LI-JETSON-KIT-IMX274CS-T

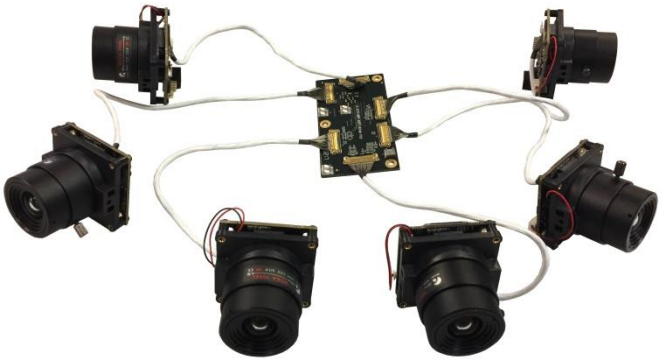
BOM

#	Items	QTY
1	LI-JTX1-MIPI-ADPT	1
2	LI-IMX274-MIPI-CS	3
3	FAW-1233-03 cable	3

LI-JETSON-KIT-IMX274CS-H

BOM

#	Items	QTY
1	LI-JTX1-MIPI-ADPT-6CAM	1
2	LI-IMX274-MIPI-CS	6
3	FAW-1233-03 cable	6



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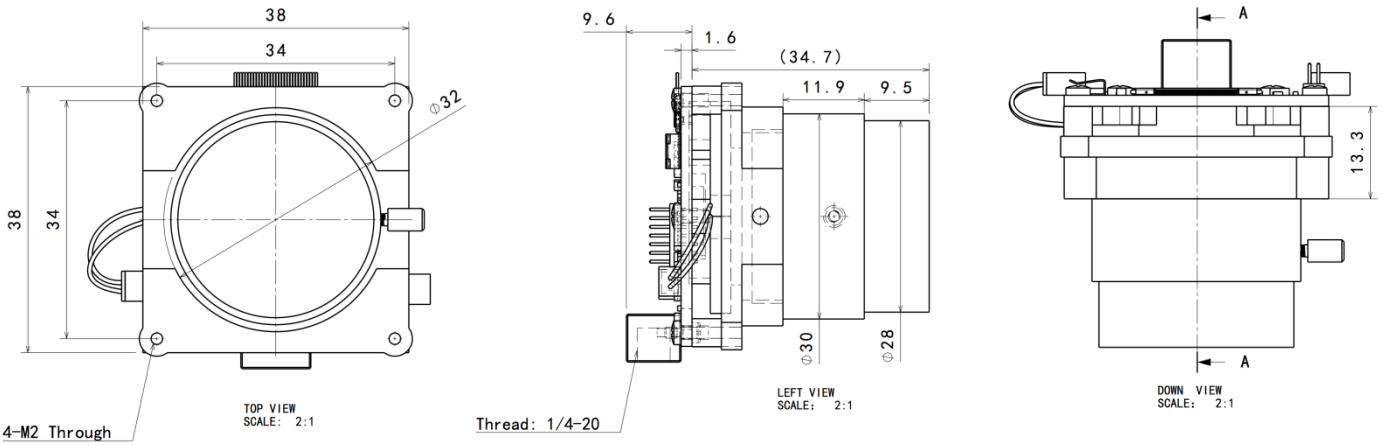
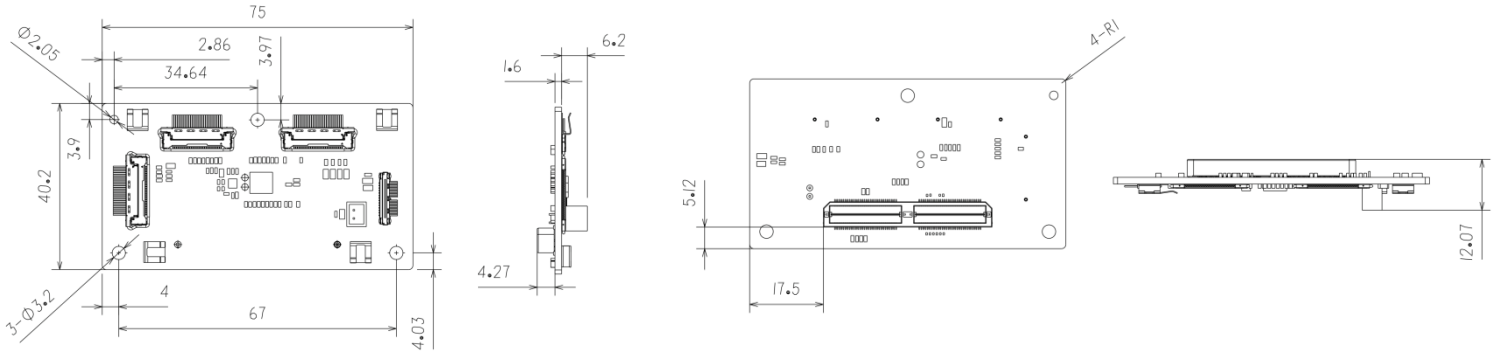
Dimensions

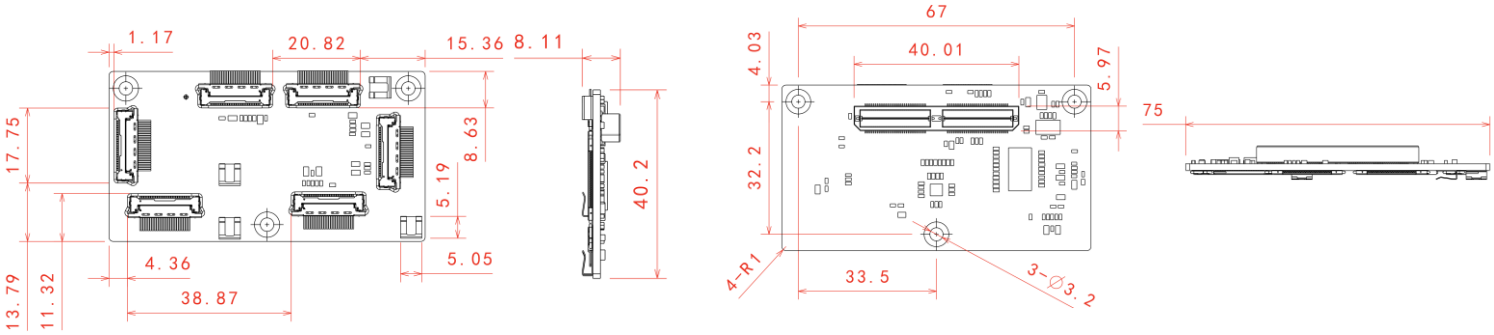
LI-IMX274-MIPI-CS



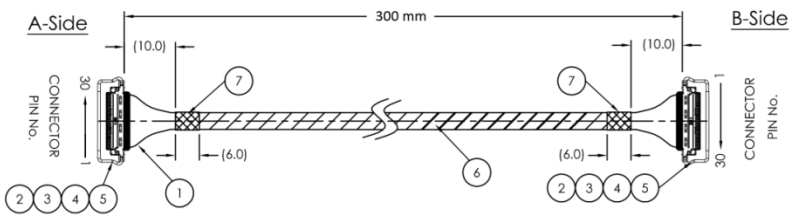
LI-JTX1-MIPI-ADPT



LI-JTX1-MIPI-ADPT-6CAM



FAW-1233-03



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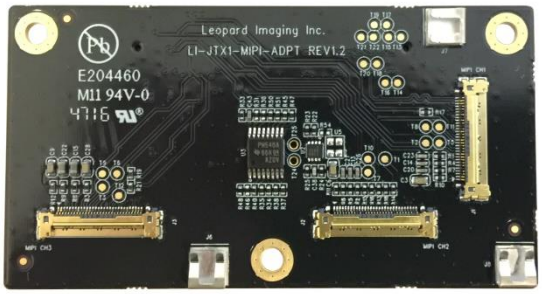
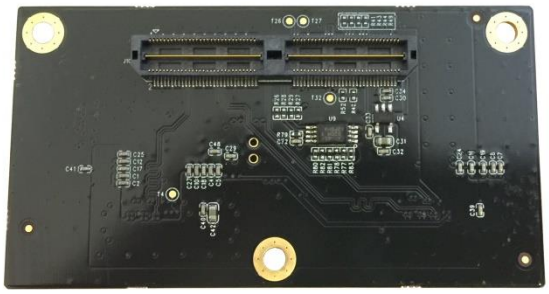
LI-JTX1-MIPI-ADPT

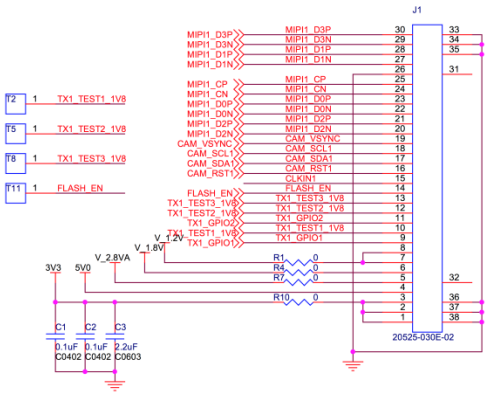




Interfaces

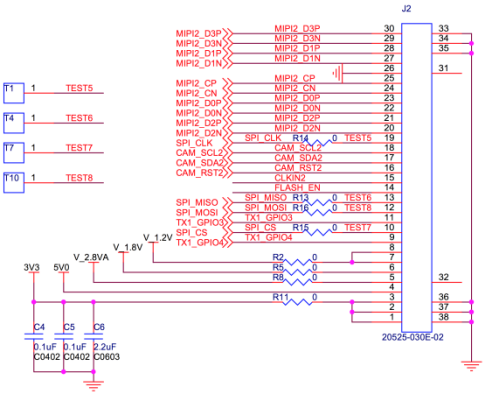
Interface J1

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



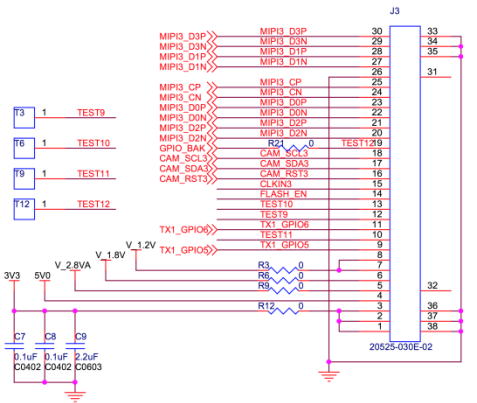
Interface J2

- 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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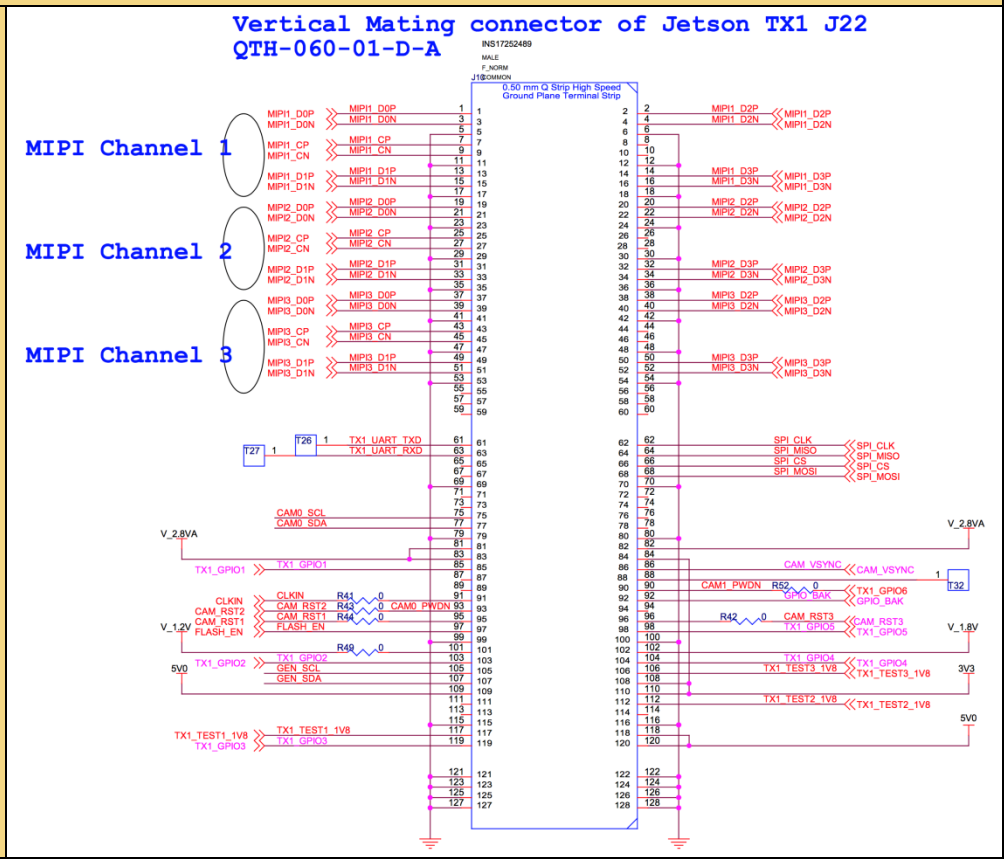
Interface J10

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



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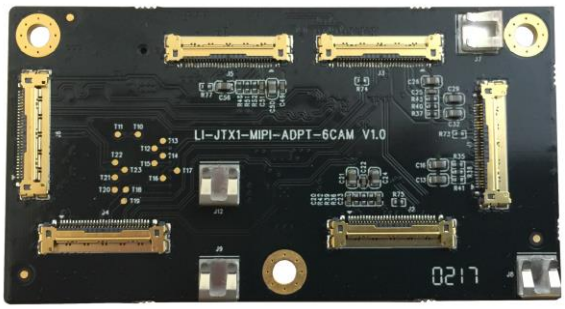
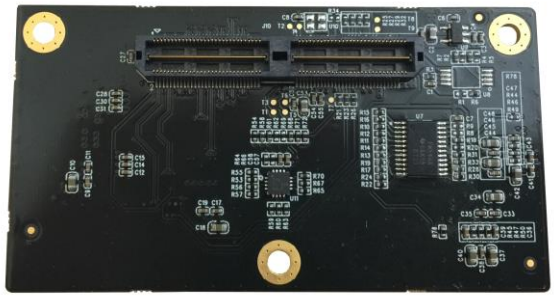
LI-JTX1-MIPI-ADPT-6CAM

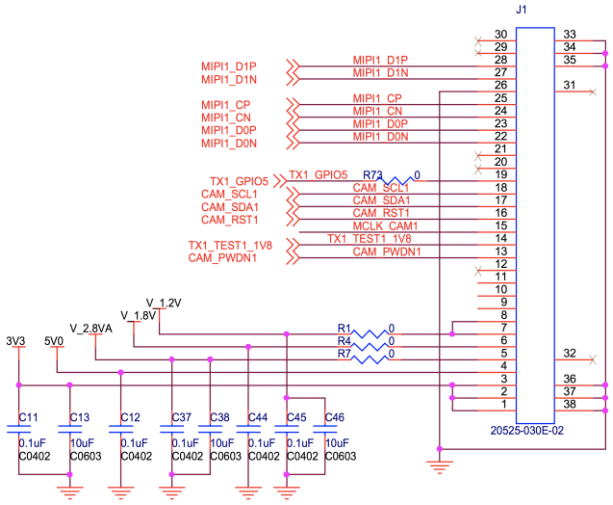




Interfaces

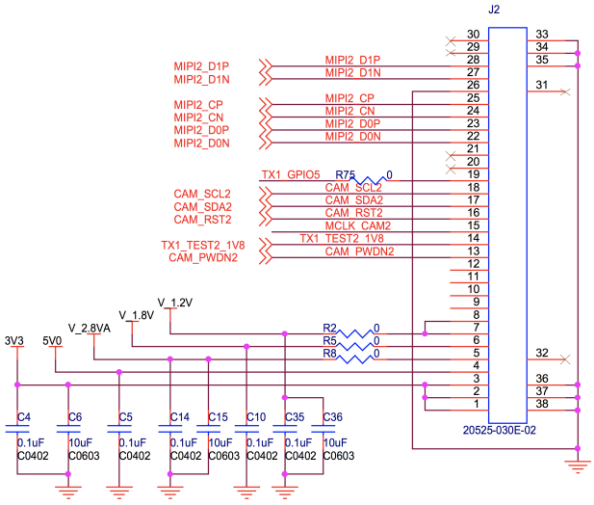
Interface J1

- 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)



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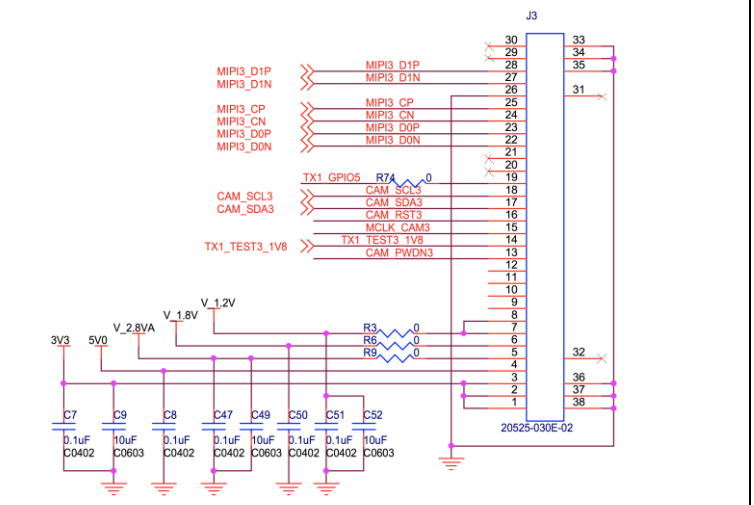
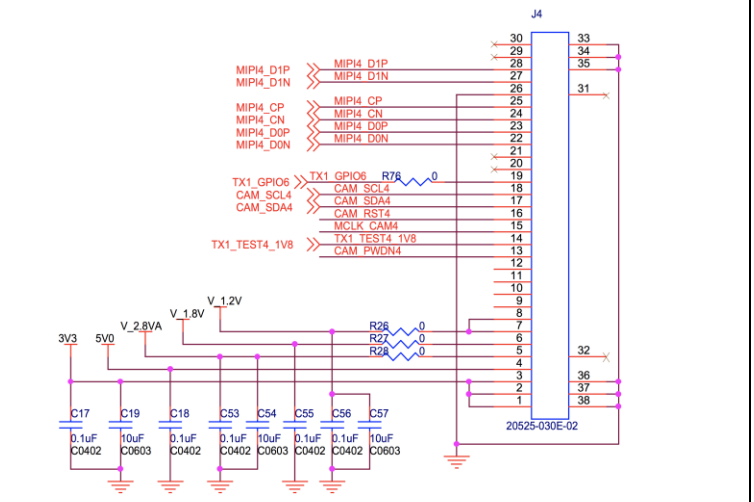
Interface J3

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



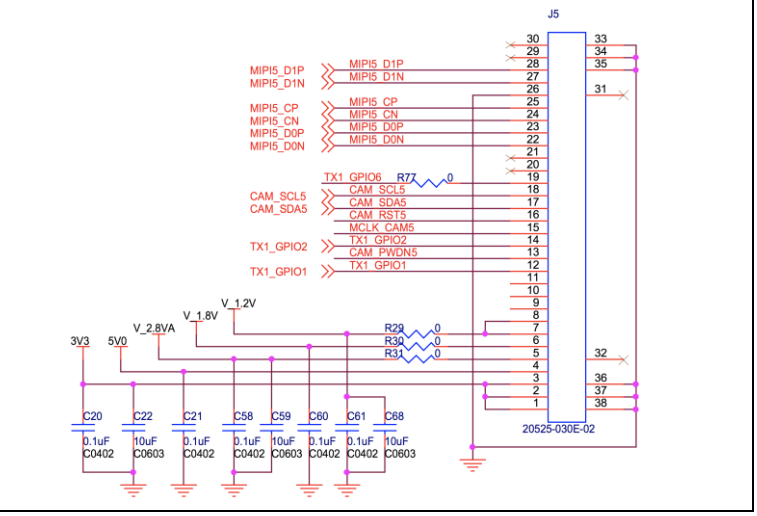
Interface J4

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



Interface J5

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



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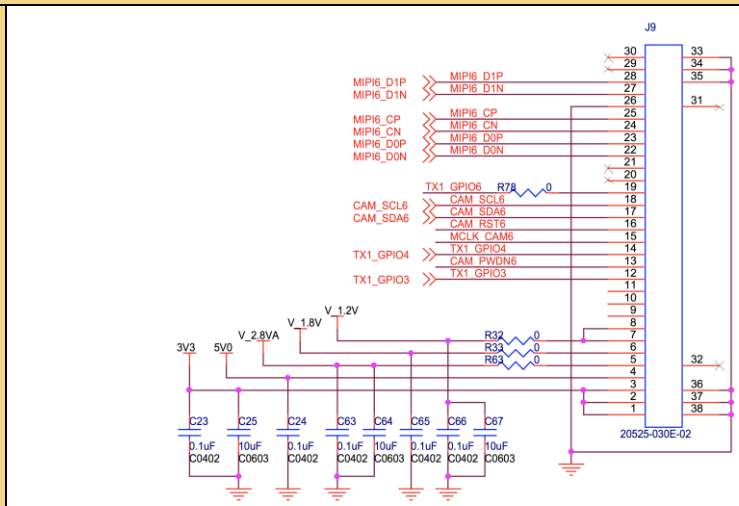
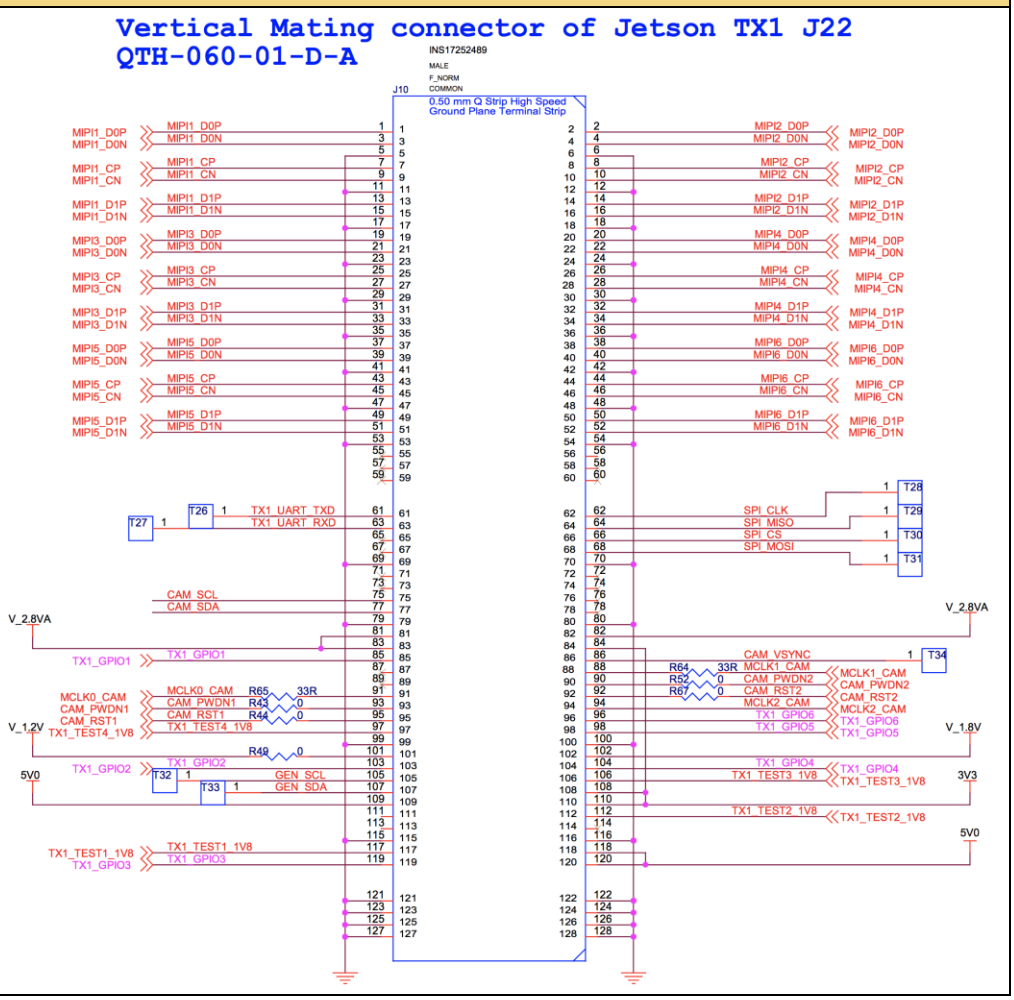
Interface J9

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
  Mating I-PEX cable: FAW-1233-03 (300 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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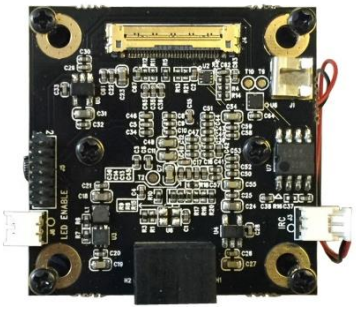
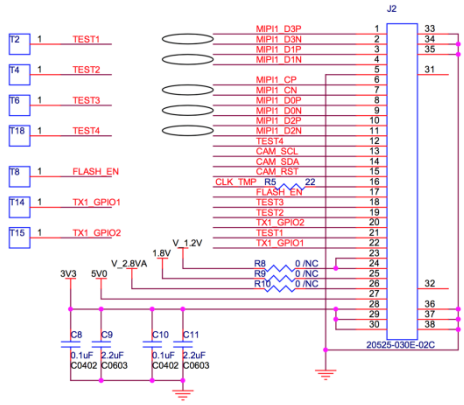
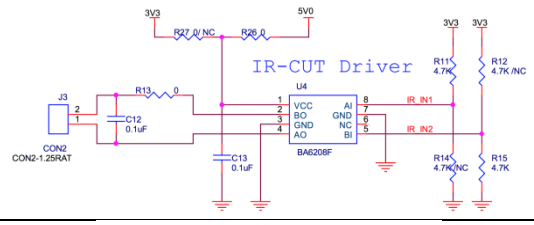
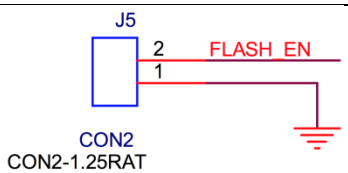
LI-IMX274-MIPI-CS



Camera Spec	
Image sensor	Sony Diagonal 7.20 mm (Type 1/2.5) CMOS Image Sensor IMX274
Optical format	1/2.5"
Number of active pixels	3864 (H) x 2196 (V)
Pixel size	1.62 x 1.62 µm
Color or Mono	Color
Interface	MIPI interface
Lens mount	CS
IR switcher	Support
Weight	~ 58 g
Interfaces	
Interface J2: ▪ 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	
Interface J5: ▪ 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.	19. Apr. 2018
1.1	Deleted info quoted from sensor spec.	24. May. 2022
1.2	Deleted lens model info.	02. Aug. 2023

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