



LEOPARD IMAGING INC

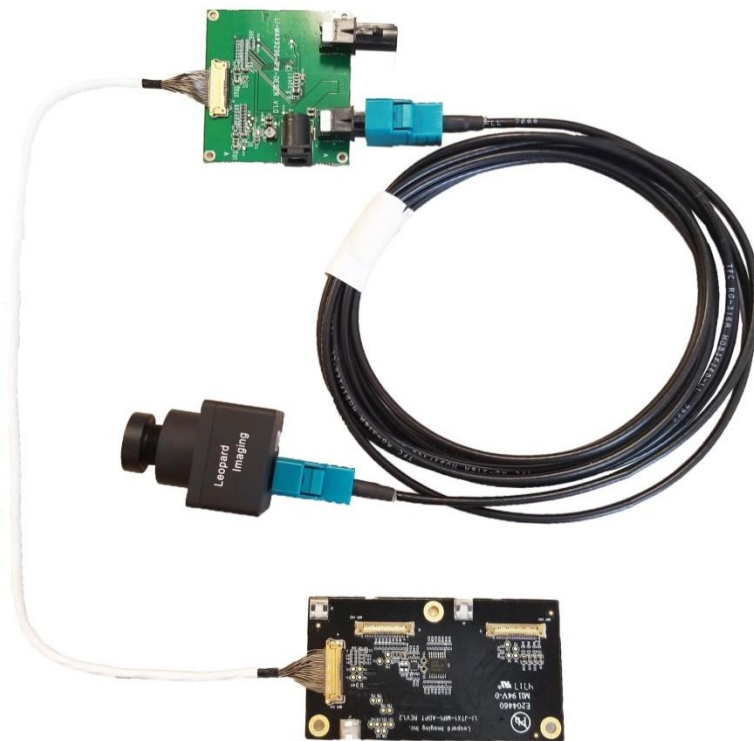
LI-JEVA-IMX390-GW5200-FPDLINKIII-X

Data Sheet

Key Features

- Compatible with Nvidia Jetson TX1/TX2 Developer Kit
- Support up to six FPDLINKIII camera
- Two adapter board options
 - LI-JTX1-MIPI-ADPT
Includes three 4-lane interface
 - LI-JTX1-MIPI-ADPT-6CAM
Includes six 2-lane interface
- Sony Diagonal 6.67mm (Type 1/2.7) CMOS RGGB Image Sensor IMX390
- Lens: FOV H 40
- Includes GEO Semi GW5200 ISP
- Incldues TI953 FPD-Link III serializer
- Includes TI954 De-serializer
- Length of Fakra cable: 3 meters
- Support multiple length Fakra cables
- Length of the I-PEX cable: 300mm
- Support M12 lens
- Provide customization services
- Part#:

LI-JEVA-IMX390-GW5200-FPDLINKIII-X



Application

- Automotive ADAS
- 1080p video applications

BOM

Nvidia TX1/TX2 Developer Kit not included

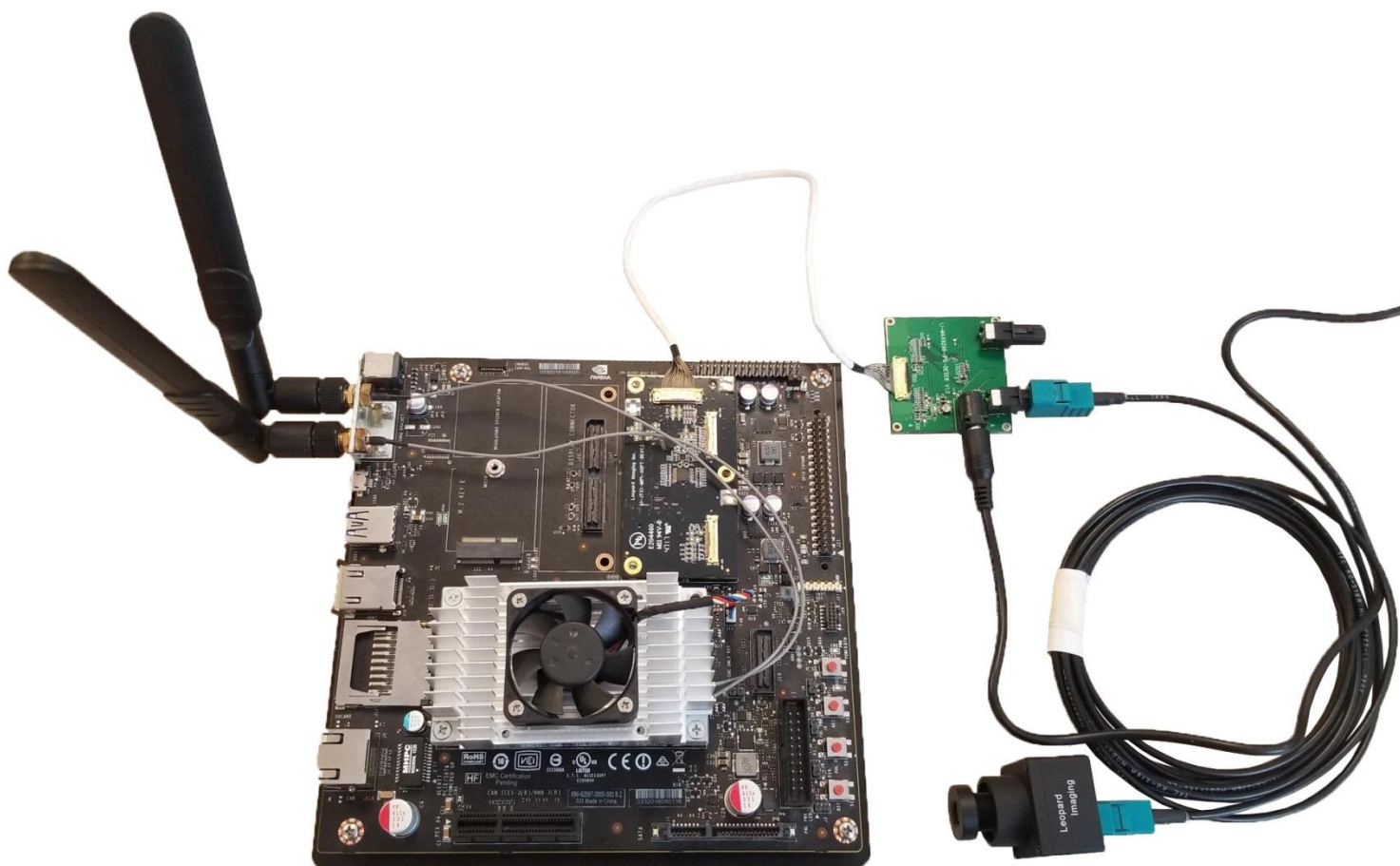
#	Items	QTY
1	LI-IMX390-GW5200-FPDLINKIII	1,2,3 or 6
2	FAK-SMZSMZ 3M	1,2,3 or 6
3	LI-TI954-IPX-DESER	1,2,3 or 6
4	FAW-1233-03 cable	1,2,3 or 6
5	LI-JTX1-MIPI-ADPT or LI-JTX1-MIPI-ADPT-6CAM	1
6	LI-PS12-01	1,2,3 or 6



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Compatible with Nvidia Jetson TX1/TX2 Developer Kit



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LI-JEVA-IMX390-GW5200-FPDLINKIII

#	Items	QTY
1	LI-IMX390-GW5200-FPDLINKIII	1
2	FAK-SMZSMZ 3M	1
3	LI-TI954-IPX-DESER	1
4	FAW-1233-03 cable	1
5	LI-JTX1-MIPI-ADPT	1
6	LI-PS12-01	1

LI-JEVA-IMX390-GW5200-FPDLINKIII-D

#	Items	QTY
1	LI-IMX390-GW5200-FPDLINKIII	2
2	FAK-SMZSMZ 3M	2
3	LI-TI954-IPX-DESER	2
4	FAW-1233-03 cable	2
5	LI-JTX1-MIPI-ADPT	1
6	LI-PS12-01	2

LI-JEVA-IMX390-GW5200-FPDLINKIII-T

#	Items	QTY
1	LI-IMX390-GW5200-FPDLINKIII	3
2	FAK-SMZSMZ 3M	3
3	LI-TI954-IPX-DESER	3
4	FAW-1233-03 cable	3
5	LI-JTX1-MIPI-ADPT	1
6	LI-PS12-01	3

LI-JEVA-IMX390-GW5200-FPDLINKIII-H

#	Items	QTY
1	LI-IMX390-GW5200-FPDLINKIII	6
2	FAK-SMZSMZ 3M	6
3	LI-TI954-IPX-DESER	6
4	FAW-1233-03 cable	6
5	LI-JTX1-MIPI-ADPT-6CAM	1
6	LI-PS12-01	6

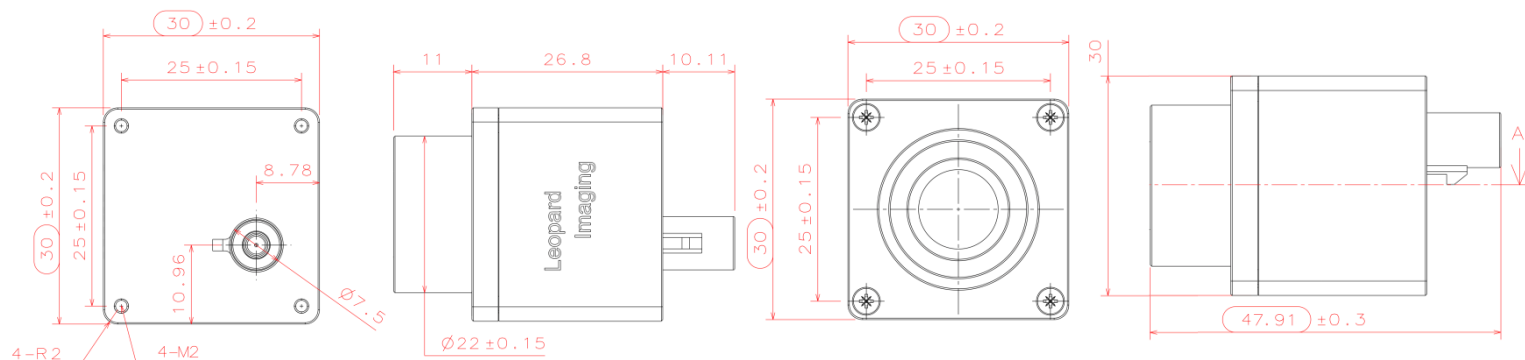


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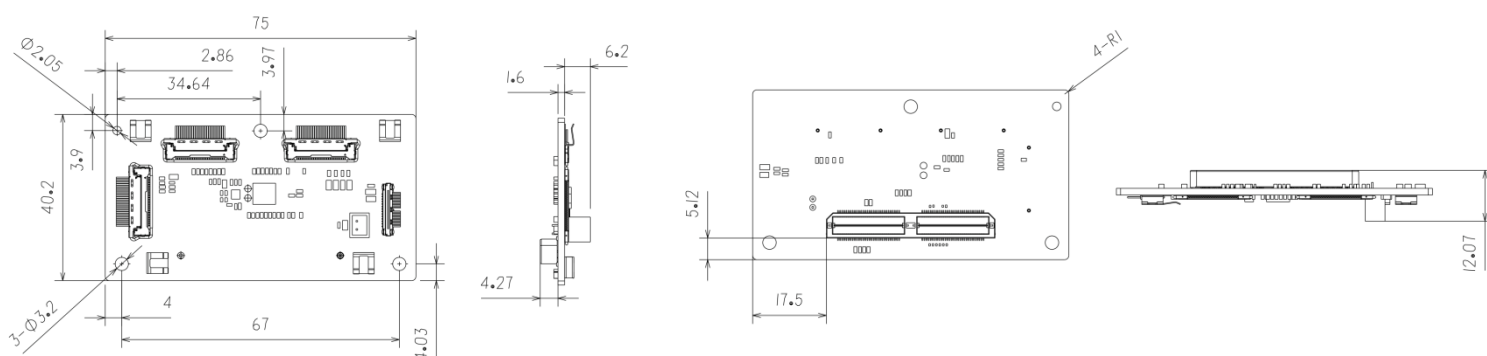
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Dimensions

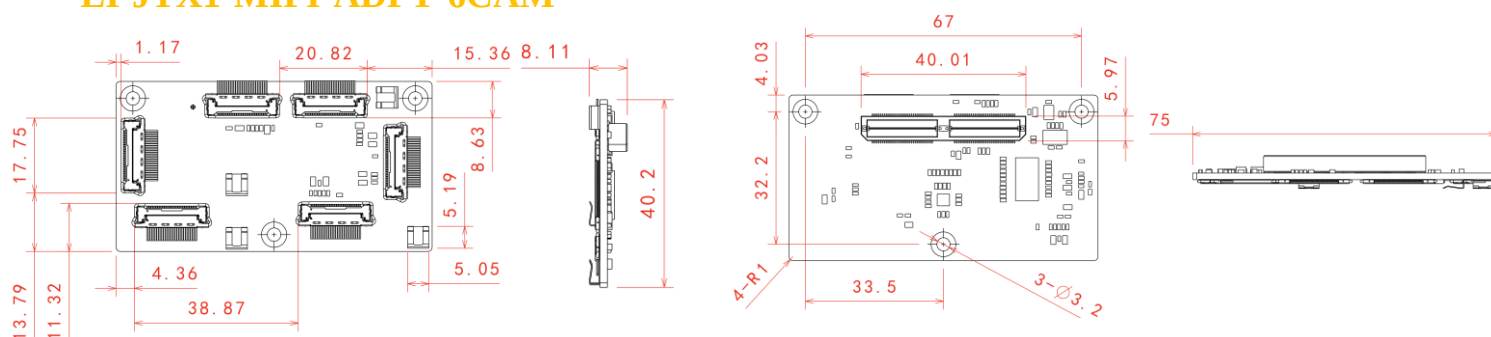
LI-IMX390-GW5200-FPDLINKIII (without lens)



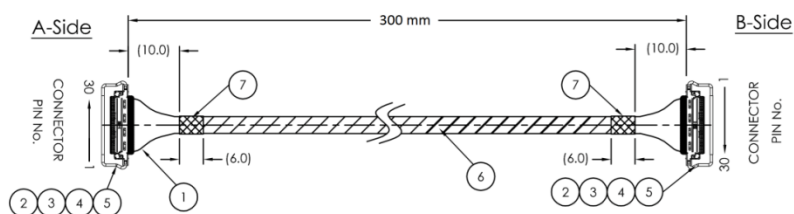
LI-JTX1-MIPI-ADPT



LI-JTX1-MIPI-ADPT-6CAM



FAW-1233-03



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LI-IMX390-GW5200-FPDLINKIII-X

Camera Spec	
Image Sensor	Sony Diagonal 6.67mm (Type 1/2.7) CMOS RGGB Image Sensor IMX390
Optical format	1/2.7"
Number of active pixels	1937 (H) x 1217 (V)
Pixel size	3.0um (H) x 3.0um (V)
Color or Mono	Color
ISP	Includes GEO Semi GW5200 ISP
Format	YUV output without compression
WDR	Support
Interface	TI953 FPD-Link III Serial interface
Lens mount	M12
Weight	45 g
Operation Temp	-40 ~ 105 °C
Storage Temp	-40 ~ 125 °C
Lens Spec	■ Model: DSL944 ■ Focal length: 7.5 mm ■ Aperture, F/#: 2.8 ■ Built in 650nm IR cut filter ■ FOV (D/H/V): 47 °/ 41 °/23.5 ° ■ Distortion: < 2% ■ Mount: M12 x 0.5 – 6
Camera Part#	■ LI-JEVA-IMX390-GW5200-FPDLINKIII (1cam) ■ LI-JEVA-IMX390-GW5200-FPDLINKIII-D (2 cam) ■ LI-JEVA-IMX390-GW5200-FPDLINKIII-T (3 cam) ■ LI-JEVA-IMX390-GW5200-FPDLINKIII-H (6 cam)

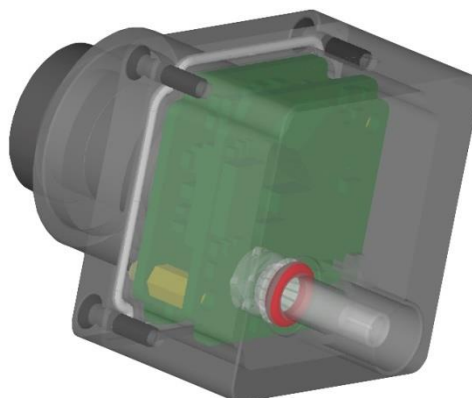


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Water proof : IP67 (Up to IP69K) Lens must be glued

- Metal Housing
- Water-proof M12 lens
- Sealed Gasket (White)
- Sealed O-ring (Red)



Cable Connector

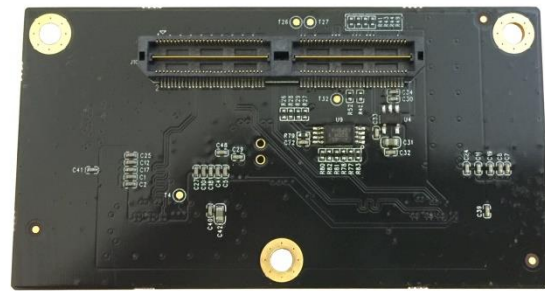
- Housing Connector- FAKRA Z Type
- Cable length: 3 meters
Support single Coax Cable transmit up to 15 meters
- Cable Part#: FAK-SMZSMZ-0008
FAKRA type connectors



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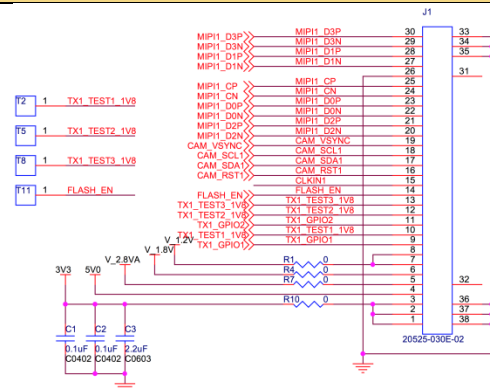
LI-JTX1-MIPI-ADPT



Interfaces

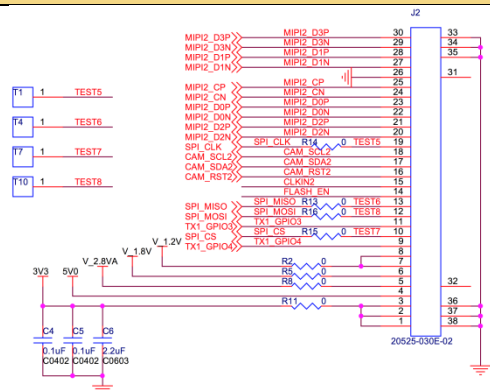
Interface J1

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



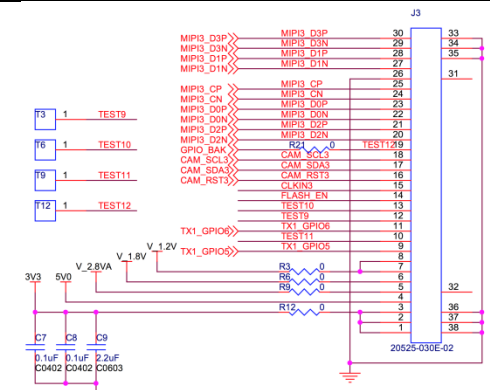
Interface J2

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



Interface J3

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

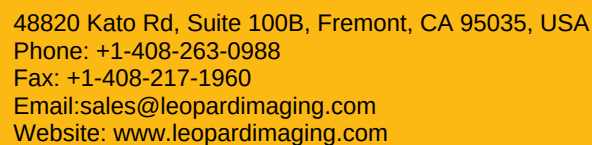
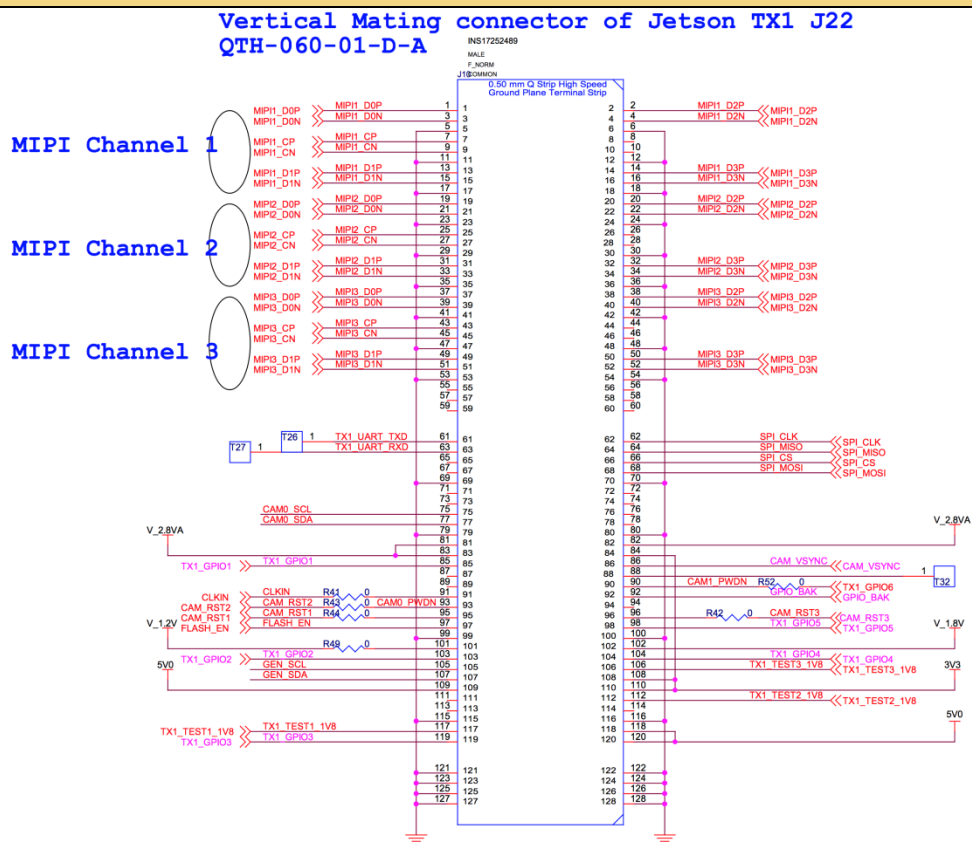


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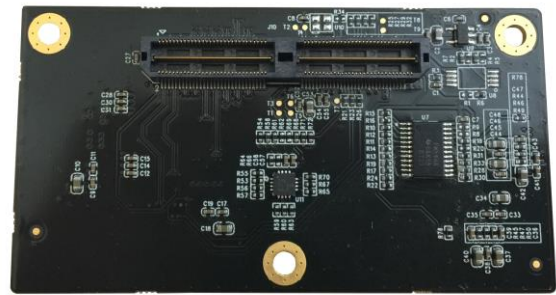
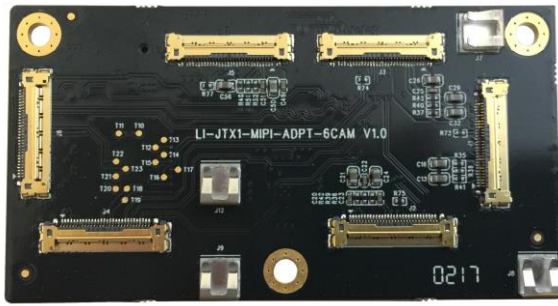
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Interface J10

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



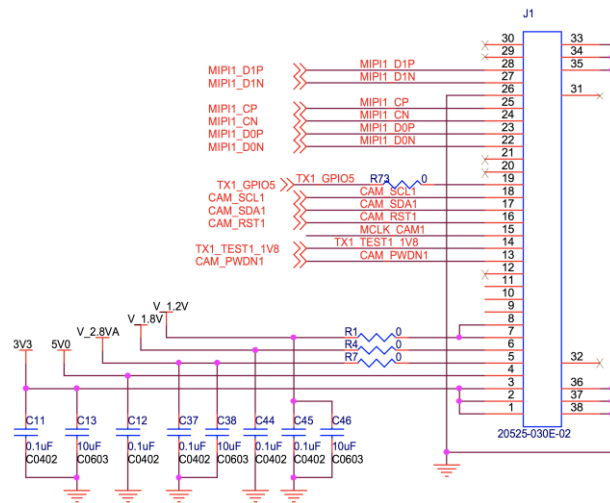
LI-JTX1-MIPI-ADPT-6CAM



Interfaces

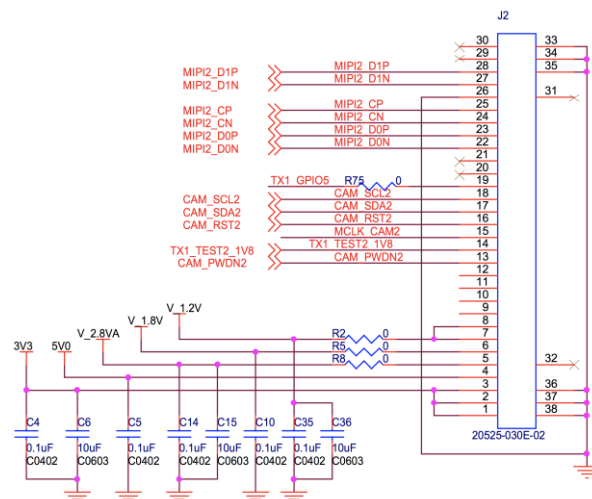
Interface J1

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



Interface J2

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

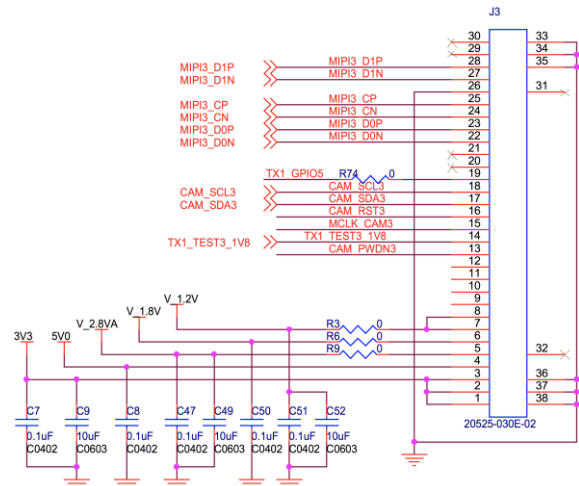


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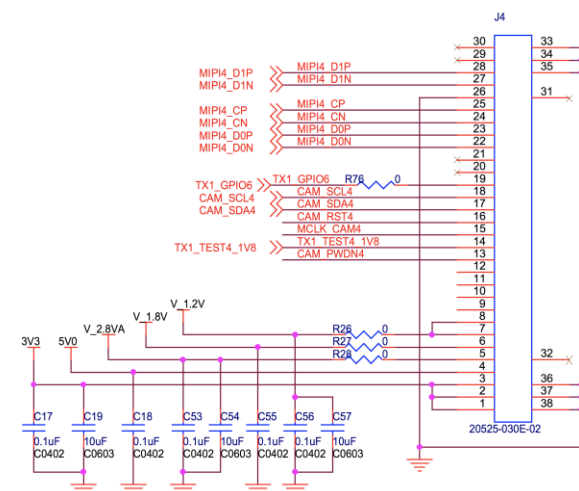
Interface J3

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



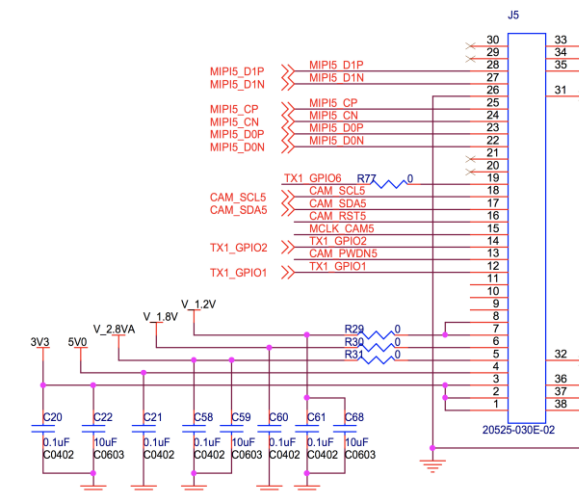
Interface J4

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



Interface J5

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

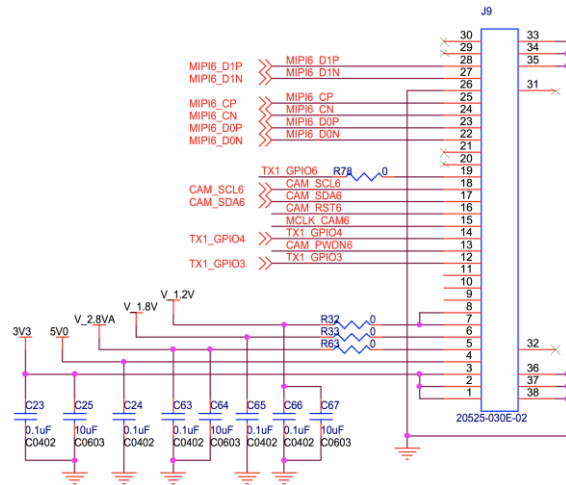


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Interface J9

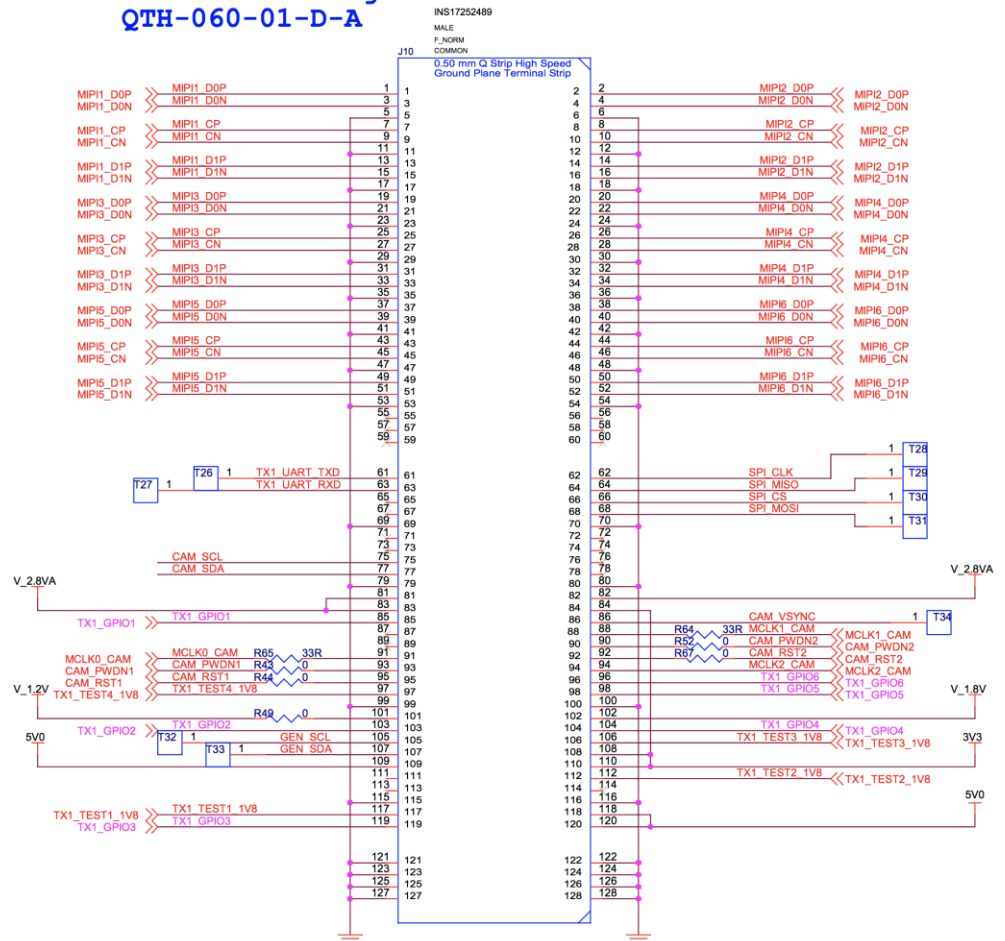
- Part#: 20525-030E-02C
 - Number of Positions: 30
 - Pitch: 0.4mm
- Mating I-PEX cable: FAW-1233-03 (300mm)



Interface J10

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

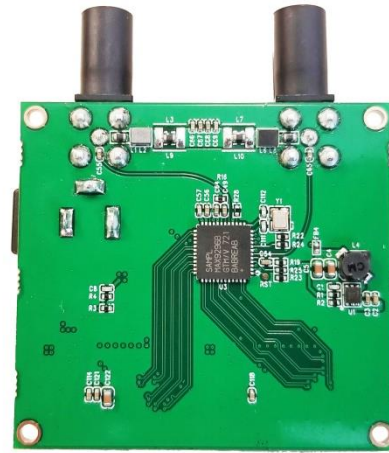
Vertical Mating connector of Jetson TX1 J22 QTH-060-01-D-A



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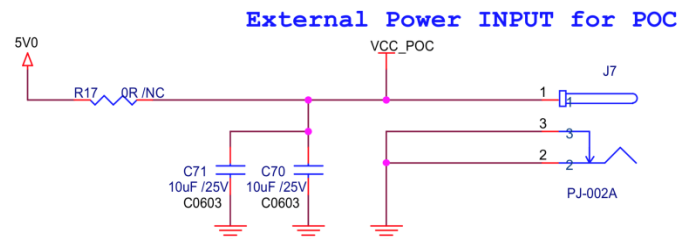
LI-TI954-IPX-DESER



Interfaces

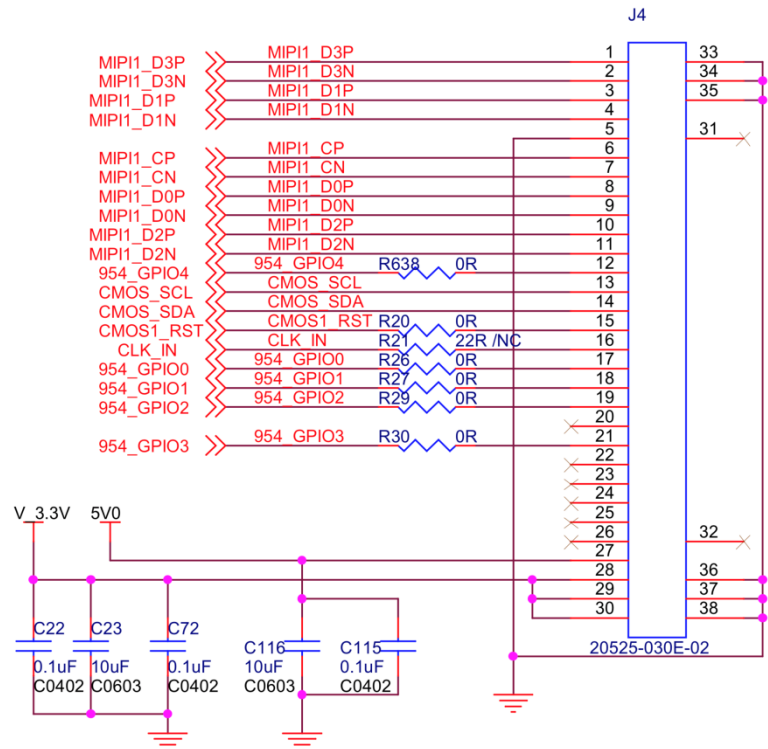
Interface J7

- Part#: PJ-002A
- Power Supply: 12V DC



Interface J4

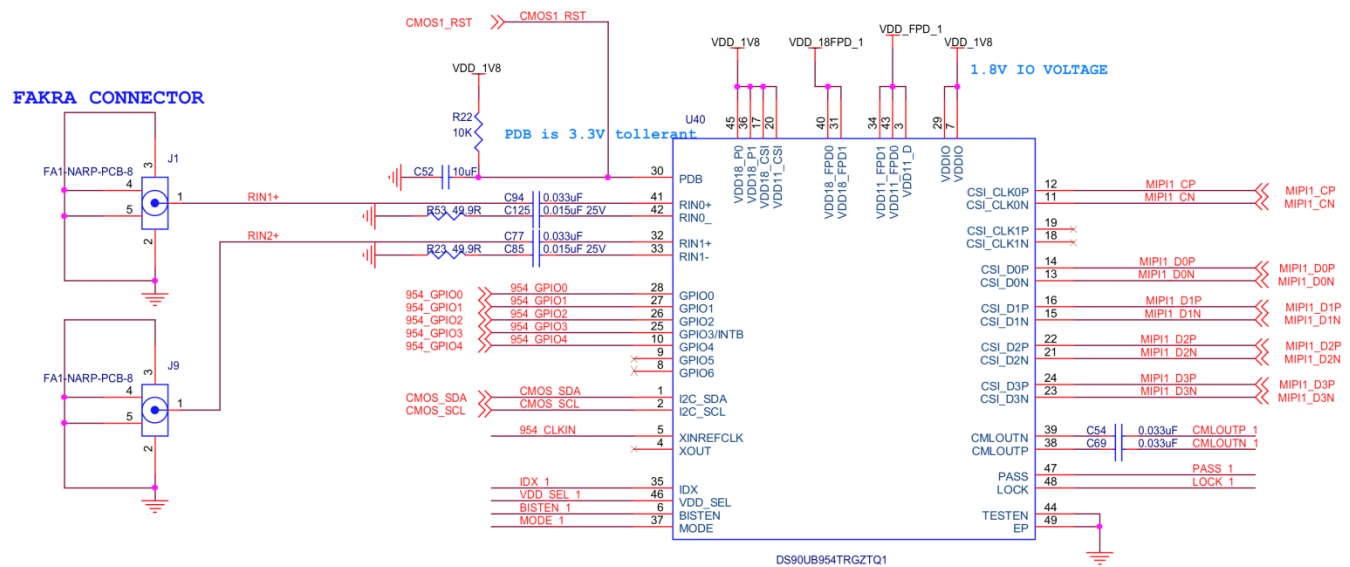
- Part#: 20525-030E-02C
- Number of Positions: 30
- Pitch: 0.4mm
- Mating I-PEX cable: FAW-1233-03 (300mm)



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De-Serializer



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Revision History

Revision	Description	Release Date
1.0	First Release	23. Nov. 2018



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