



LEOPARD IMAGING INC

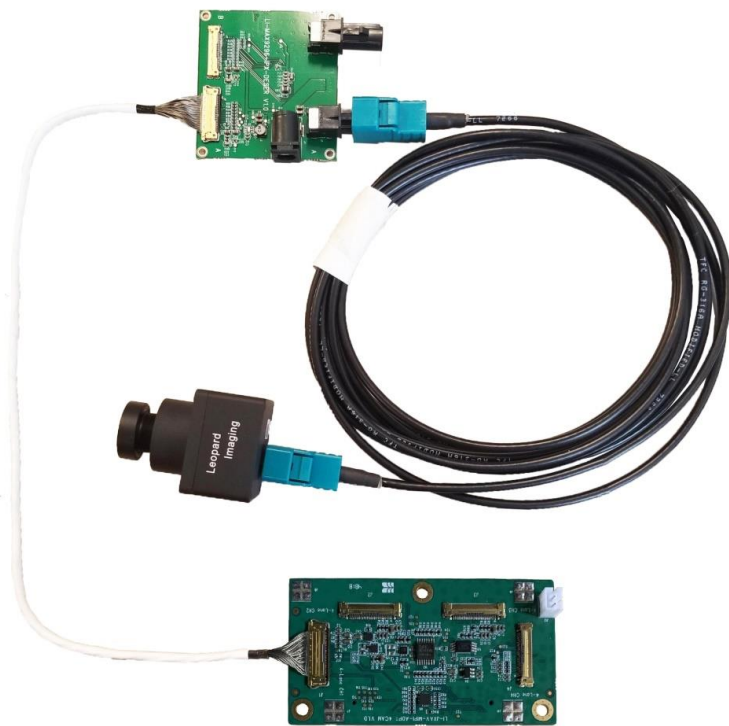
# LI-AR0231-GMSL2-XAVIER-xxxH

## Data Sheet

### Key Features

- Compatible with Nvidia® Jetson AGX Xavier™ Developer Kit
- Support one GMSL2 camera
- ON SEMI 2.3MP AR0231 RCCB Sensor
- Active pixels: 1928H x 1208V
- Pixel size: 3.0 um x 3.0 um
- Color camera
- Lens: FOV H 60 / 120 / 200
- GMSL2 Serializer
- Includes De-serializer to convert serial interface to MIPI interface
- 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-AR0231-GMSL2-XAVIER-xxxH



### Application

- Automotive ADAS
- 1080p30 video applications
- ADAS + Viewing Fusion

### BOM

Nvidia Xavier Developer Kit not included

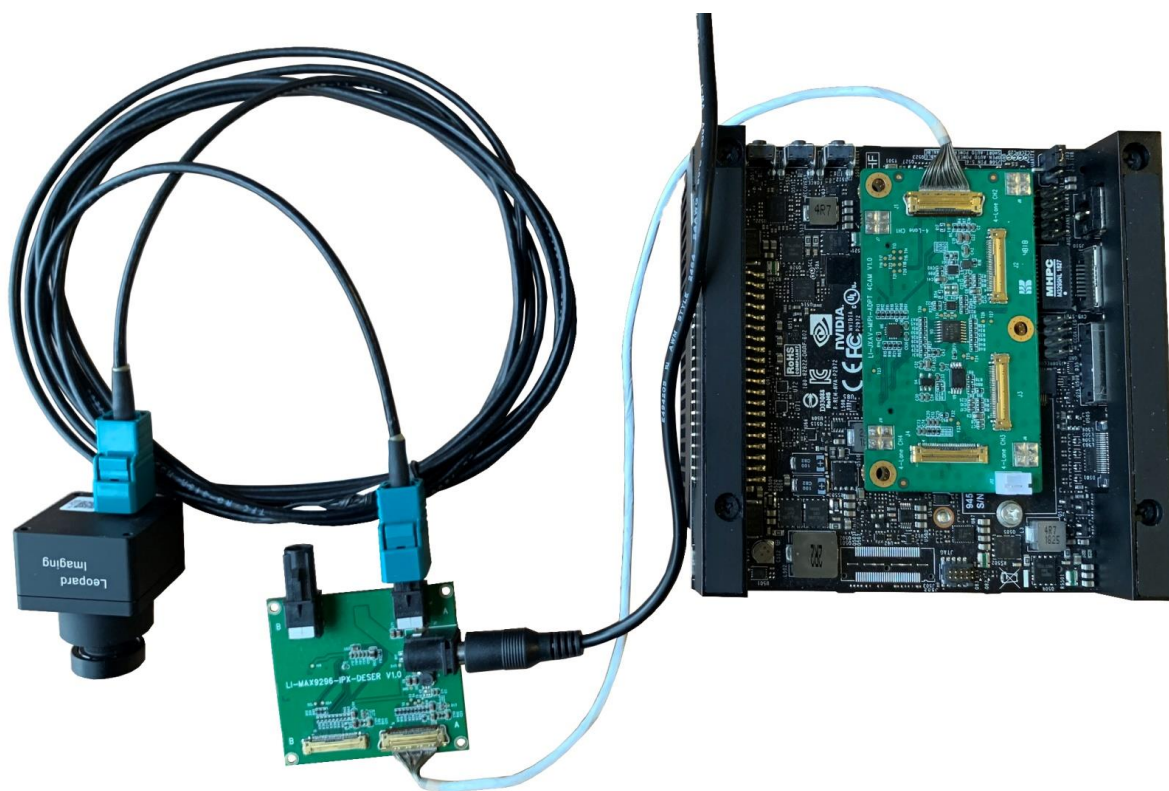
| # | Items                  | QTY |
|---|------------------------|-----|
| 1 | LI-AR0231-GMSL2-xxxH   | 1   |
| 2 | FAK-SMZSMZ 3M          | 1   |
| 3 | LI-GMSL2-IPX-DESER     | 1   |
| 4 | FAW-1233-03 cable      | 1   |
| 5 | LI-JXAV-MIPI-ADPT-4CAM | 1   |
| 6 | LI-PS12-01             | 1   |



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## Compatible with Nvidia Jetson AGX Xavier Developer Kit

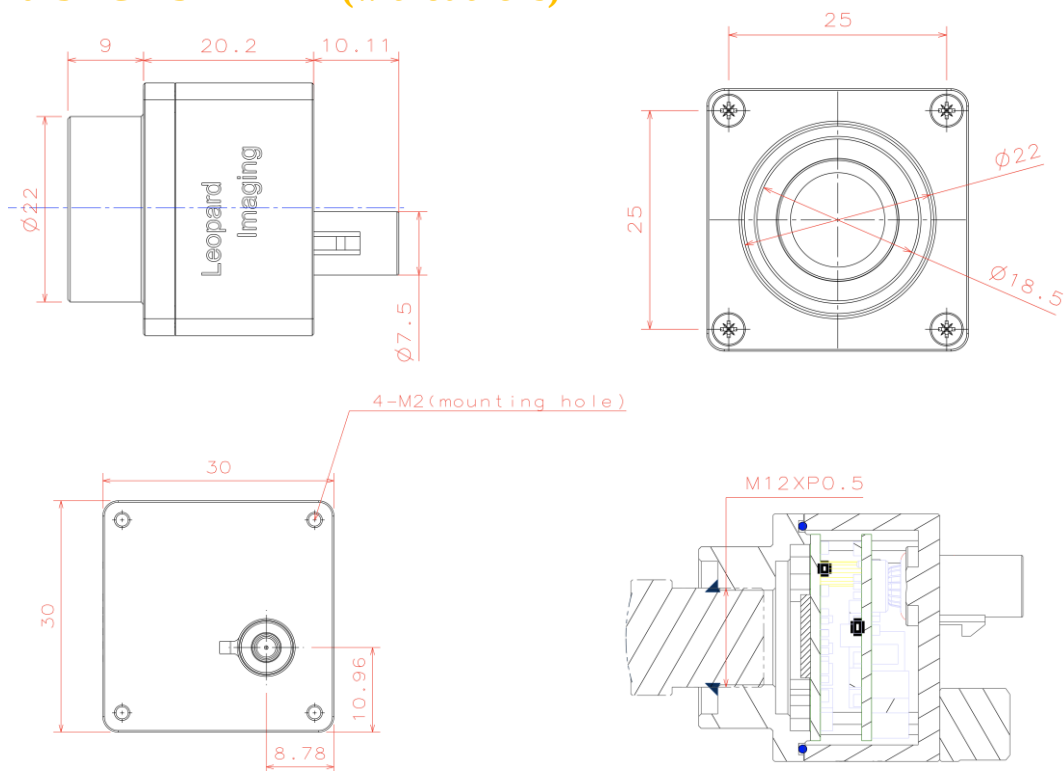


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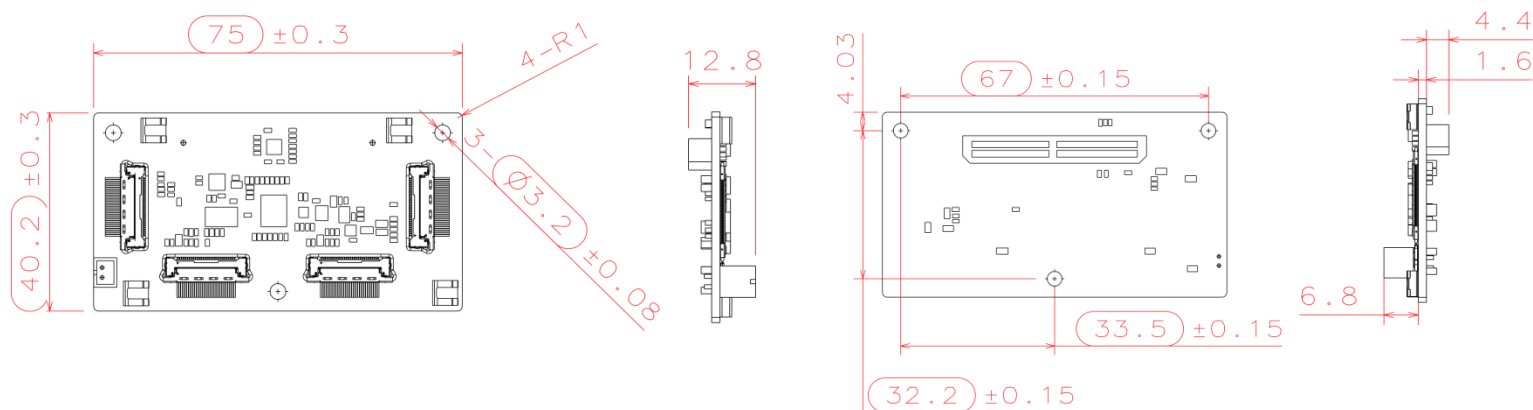
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# Dimensions

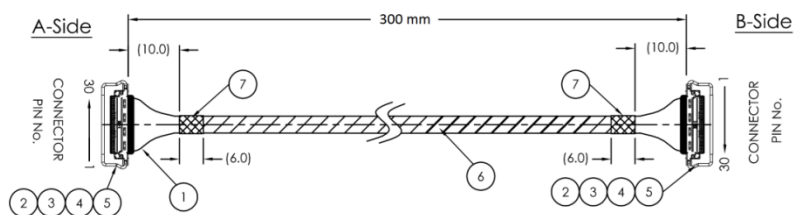
## LI-AR0231-GMSL2-xxxH (without lens)



## LI-JXAV-MIPI-ADPT-4CAM

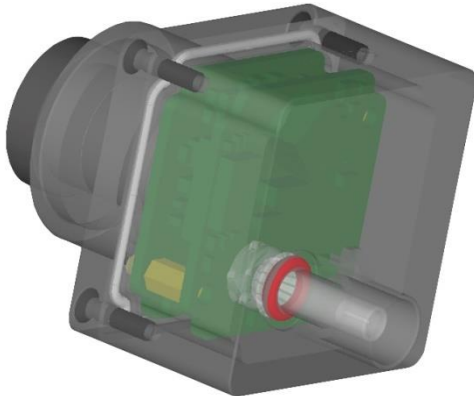


## FAW-1233-03



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| Camera Spec                                                                                                                                                                                                                                |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Image Sensor                                                                                                                                                                                                                               | ON SEMI 2.3MP AR0231 RCCB Sensor                                                     |
| Optical format                                                                                                                                                                                                                             | 1/2.7"                                                                               |
| Number of active pixels                                                                                                                                                                                                                    | 1928 (H) x 1208 (V)                                                                  |
| Pixel size                                                                                                                                                                                                                                 | 3.0um (H) x 3.0um (V)                                                                |
| Color or Mono                                                                                                                                                                                                                              | Color                                                                                |
| 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) <b>Lens must be glued</b>                                                                                                                                                                                 |                                                                                      |
| <ul style="list-style-type: none"><li>▪ Metal Housing</li><li>▪ Water-proof M12 lens</li><li>▪ Sealed Gasket (White)</li><li>▪ Sealed O-ring (Red)</li></ul>                                                                               |   |
| Cable Connector                                                                                                                                                                                                                            |                                                                                      |
| <ul style="list-style-type: none"><li>▪ Housing Connector- FAKRA Z Type</li><li>▪ Cable length: 3 meters<br/>Support single Coax Cable transmit up to 15 meters</li><li>▪ Cable Part#: FAK-SMZSMZ-0008<br/>FAKRA type connectors</li></ul> |  |

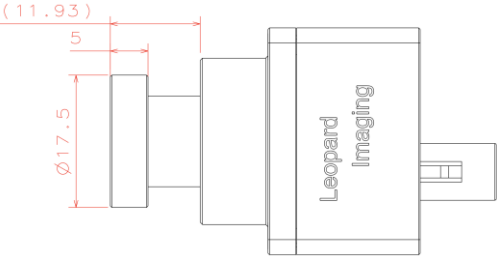
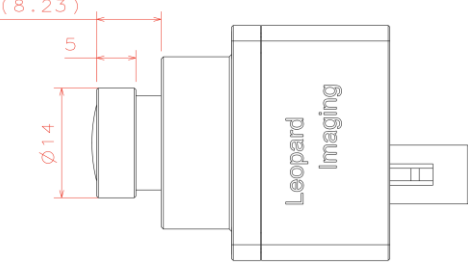
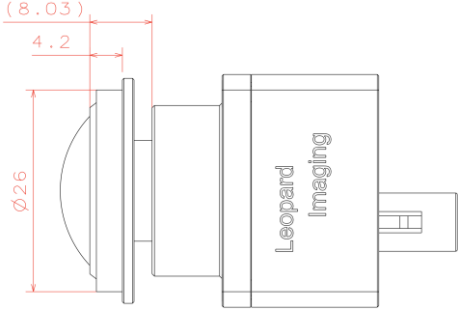


# Lens Information

Part#: LI-AR0231-GMSL2-XAVIER-xxxH

Note:

xxxH - 060H: FOV H 60 °  
          120H: FOV H 120 °  
          200H: FOV H 200 °

| LI-AR0231-GMSL2-060H                                                                    | LI-AR0231-GMSL2-120H                                                                      | LI-AR0231-GMSL2-200H                                                                     |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|       |         |      |
| Lens: M127B0618W<br>Lens EFL: 6.0 mm<br>FOV(D): 74.5°<br>FOV(H): 60.6°<br>FOV(V): 36.1° | Lens: M128B02820WM12R1<br>Lens EFL: 2.8 mm<br>FOV(D): 148°<br>FOV(H): 122°<br>FOV(V): 74° | Lens: F132B0108WM12<br>Lens EFL: 1.08 mm<br>FOV(D): 200°<br>FOV(H): 200°<br>FOV(V): 200° |
|       |       |     |

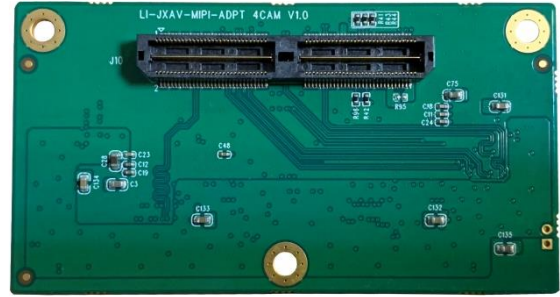


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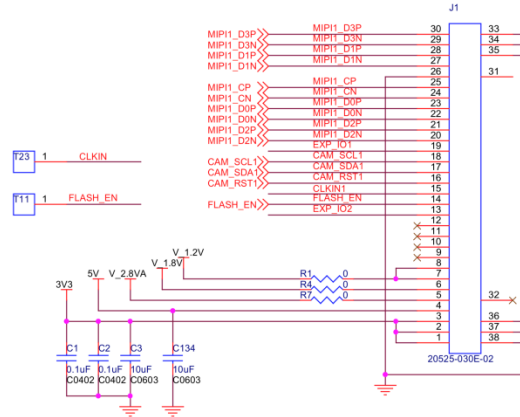
# LI-JXAV-MIPI-ADPT-4CAM



## Interfaces

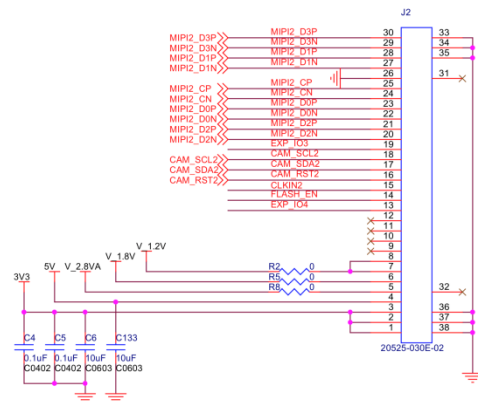
### Interface J1

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



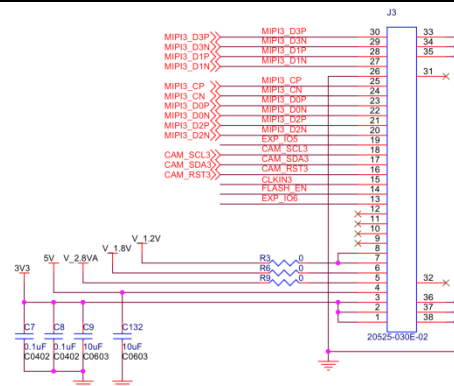
### Interface J2

- 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)

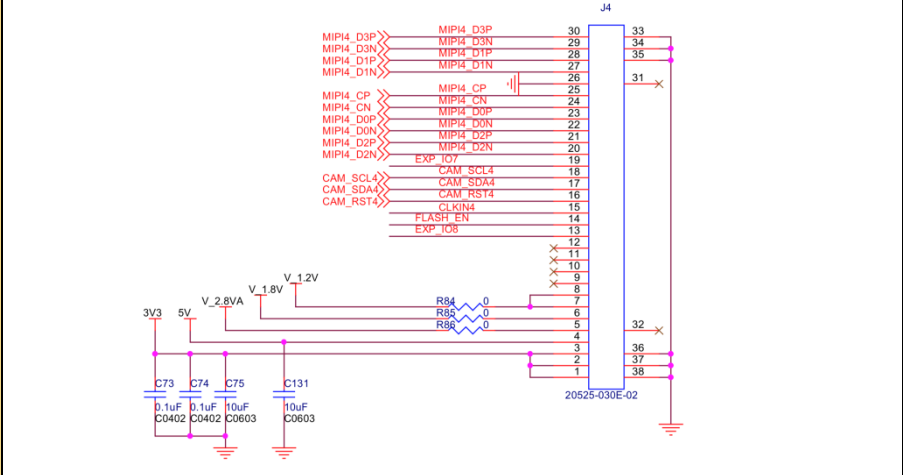


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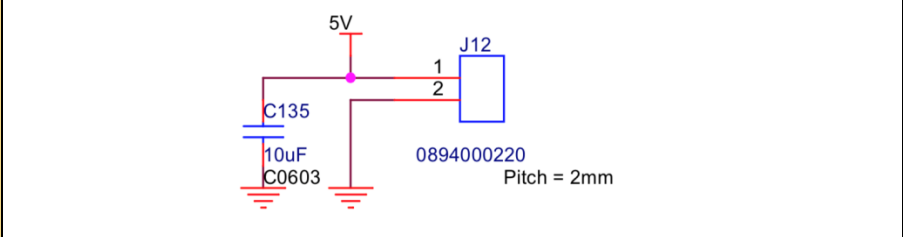
|              |
|--------------|
| Interface J4 |
|--------------|

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



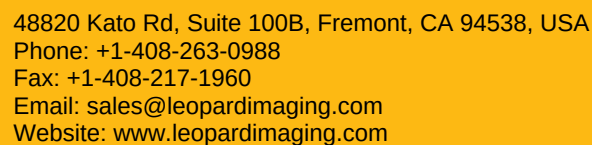
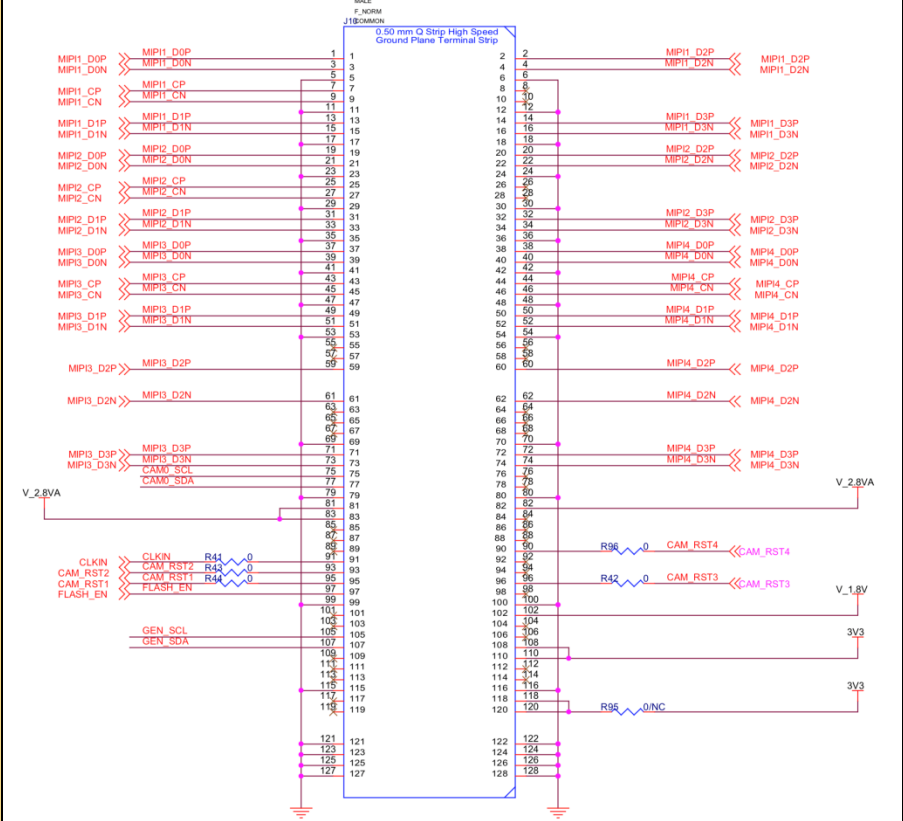
|              |  |
|--------------|--|
| Interface J5 |  |
|--------------|--|

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

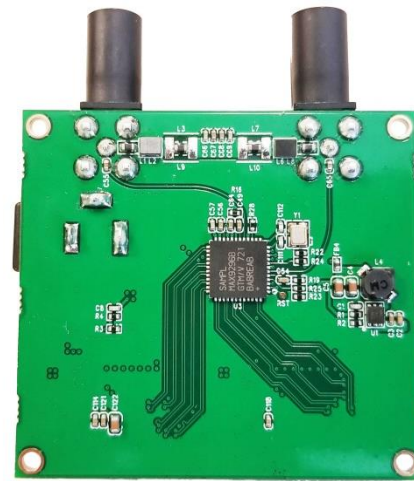
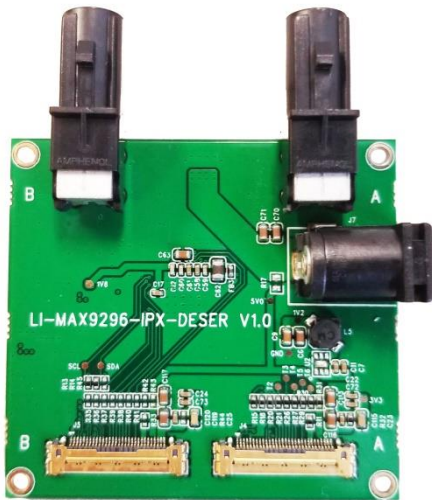


## Interface J10

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



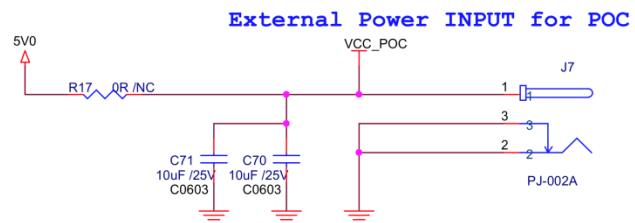
# LI-GMSL2-IPX-DESER



## Interfaces

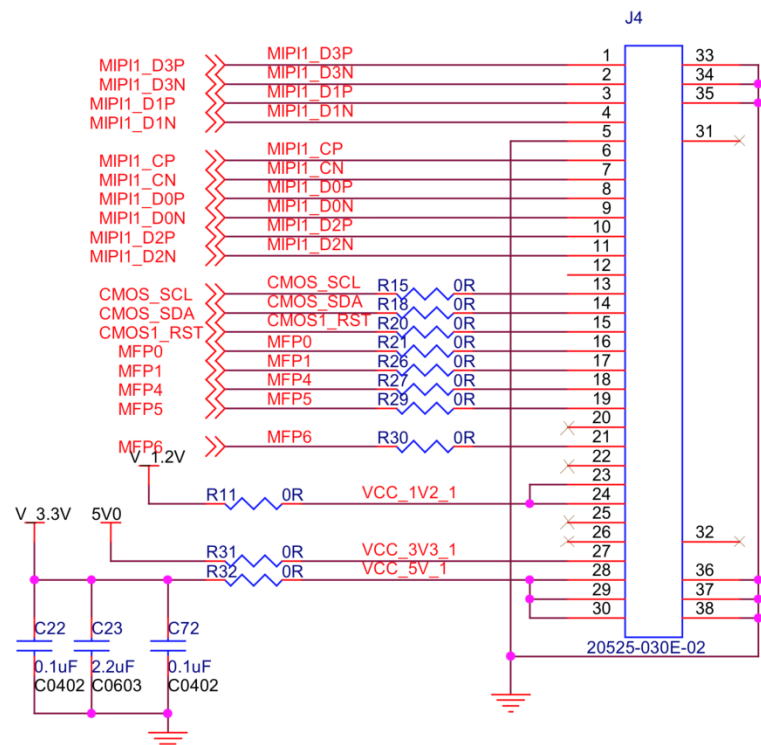
### Interface J7

- 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)



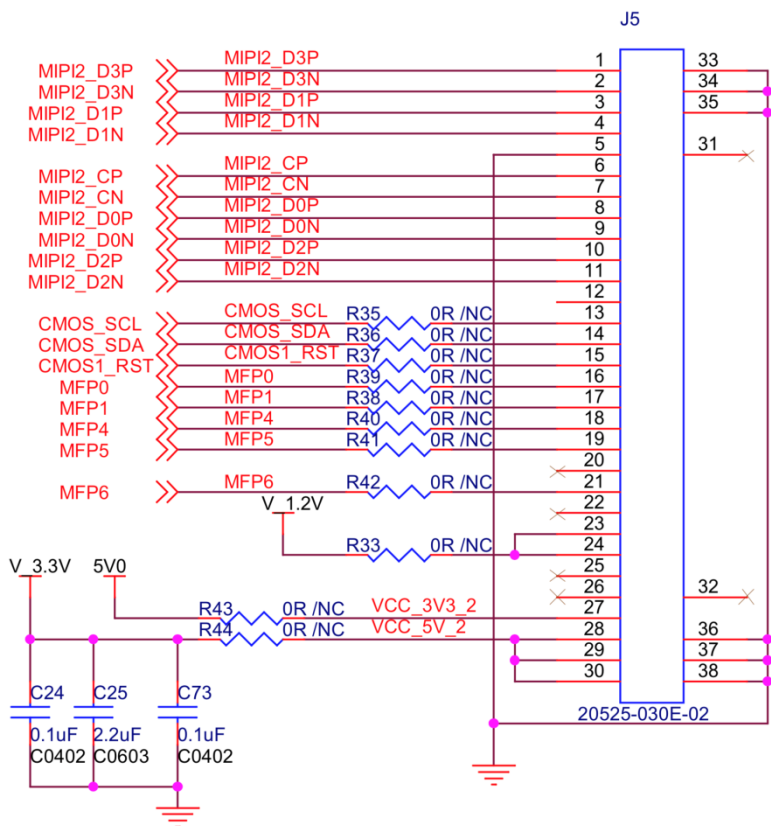
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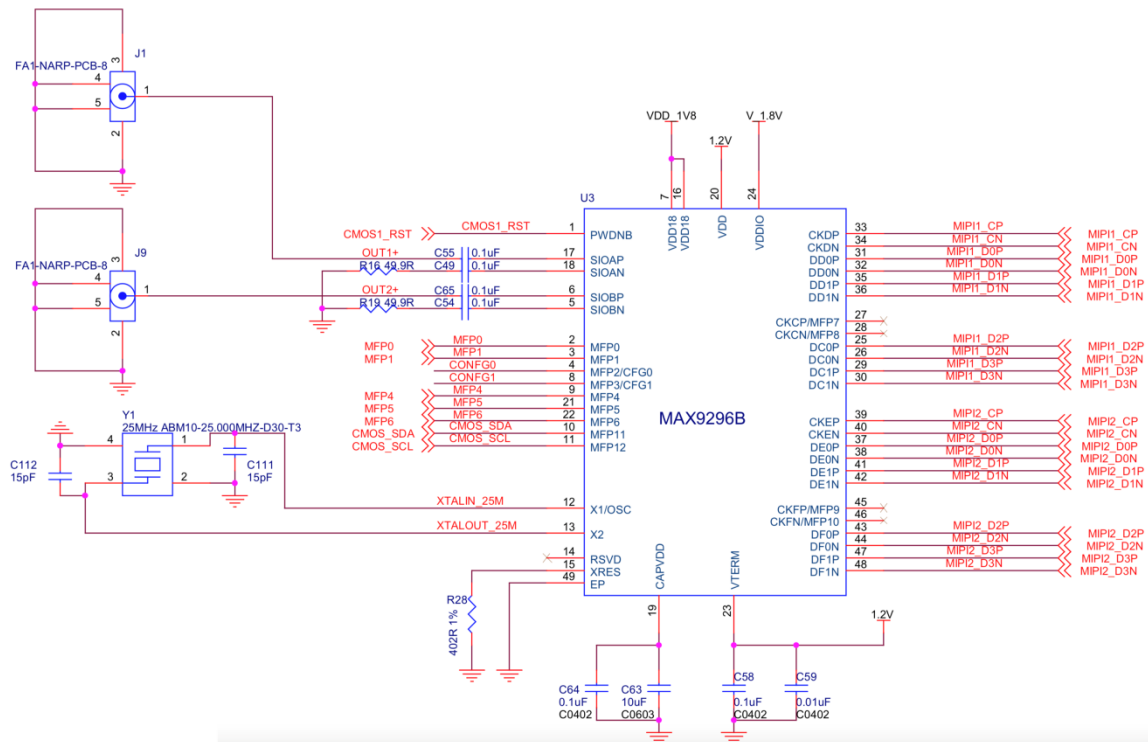


## Interface J5

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



## De-Serializer



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## Revision History

| Revision | Description   | Release Date  |
|----------|---------------|---------------|
| 1.0      | First Release | 22. Apr. 2019 |



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