



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

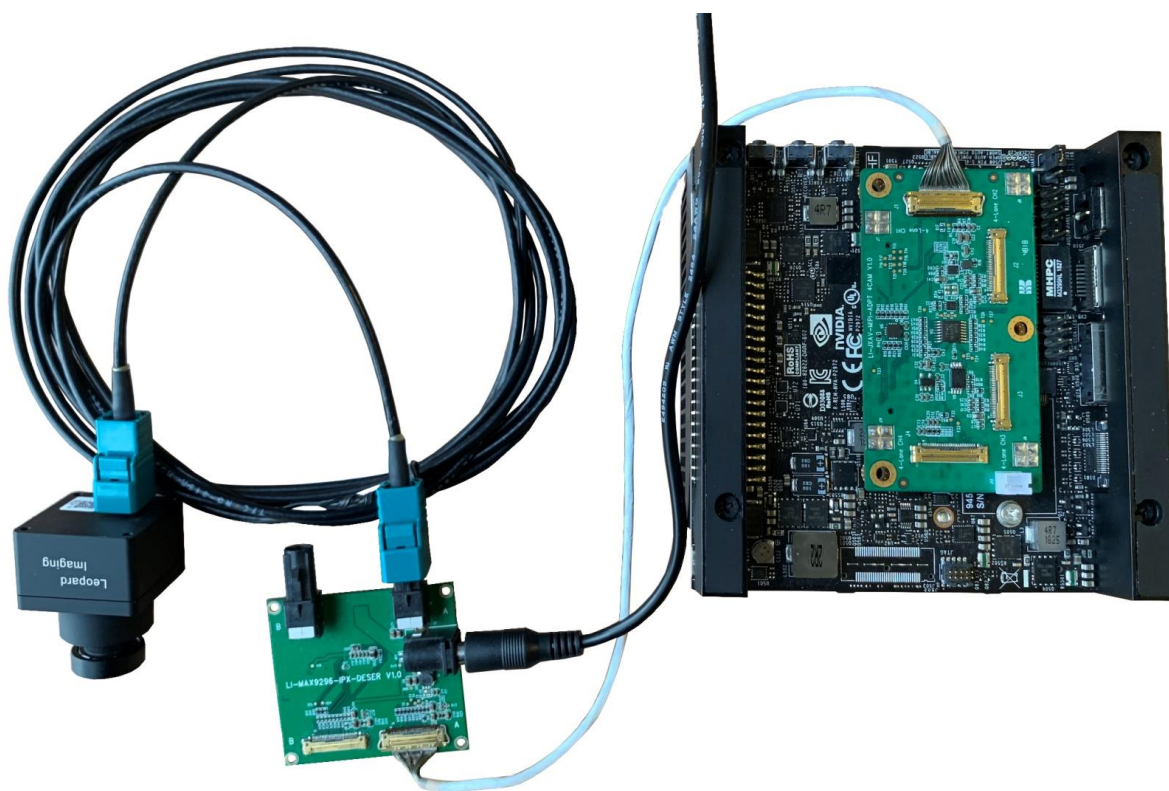
#	Items	QTY
1	LI-AR0231-GMSL2-xxxH	1
2	FAK-SMZSMZ 3M	1
3	LI-GMSL2-IPX-DESER	1
4	FAW-1233-03 cable	1
5	LI-JXAV-MIPI-ADPT-4CAM	1
6	LI-PS12-01	1



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Compatible with Nvidia Jetson AGX Xavier Developer Kit

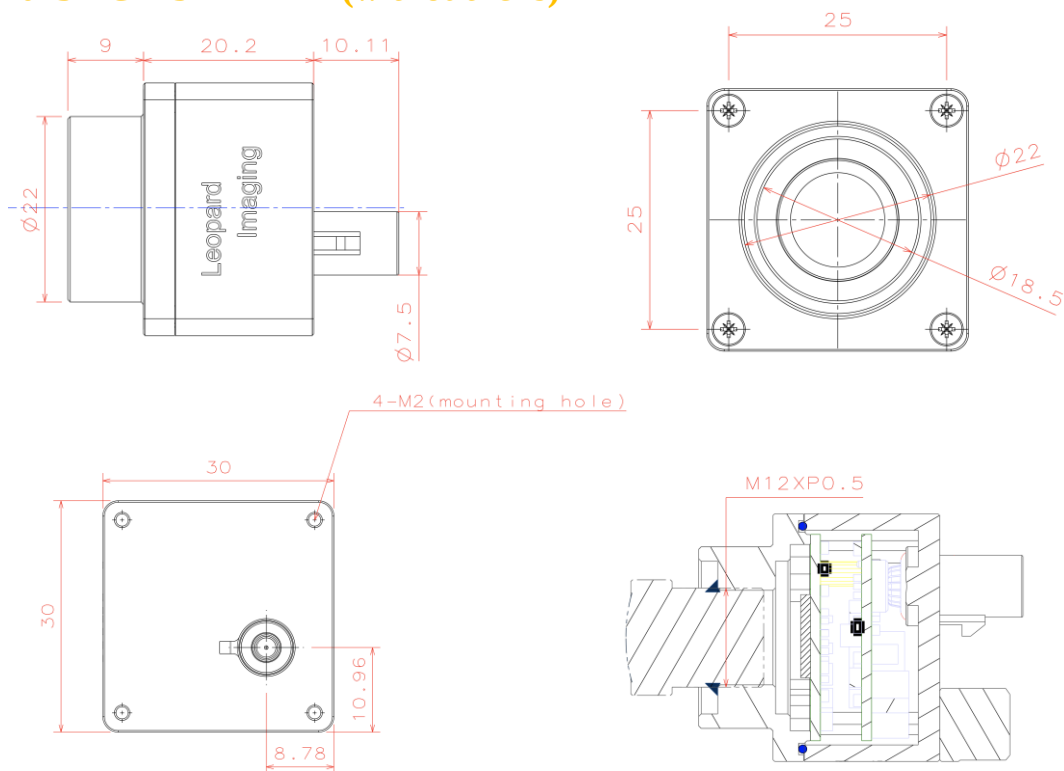


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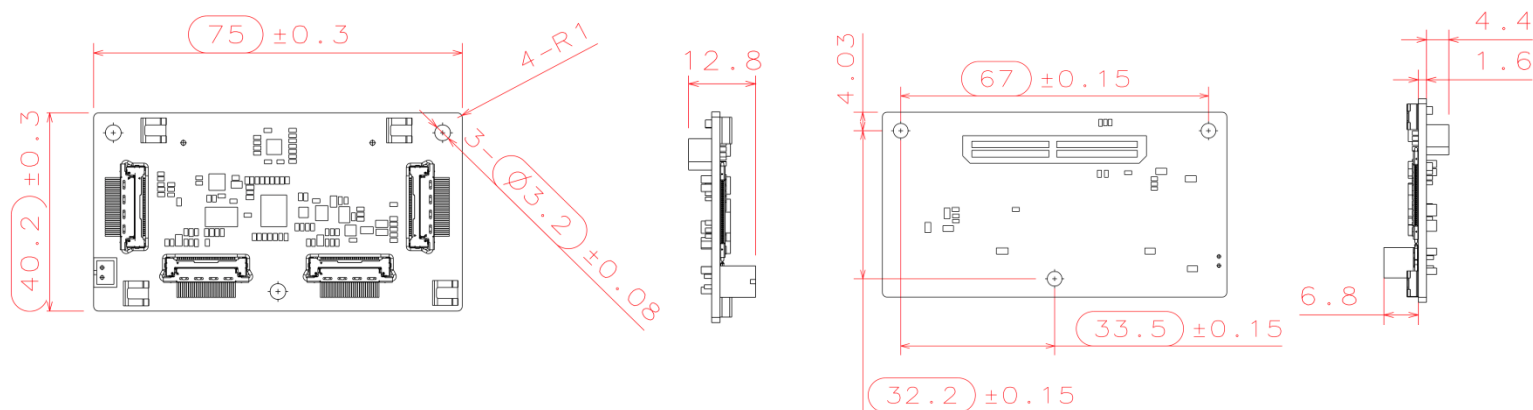
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Dimensions

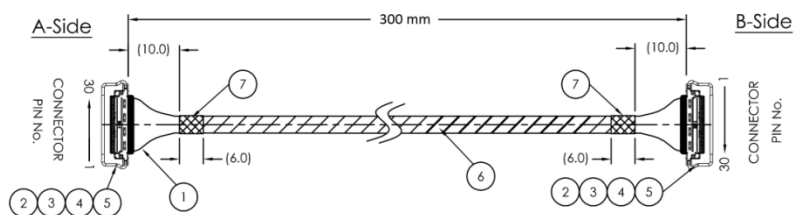
LI-AR0231-GMSL2-xxxH (without lens)



LI-JXAV-MIPI-ADPT-4CAM

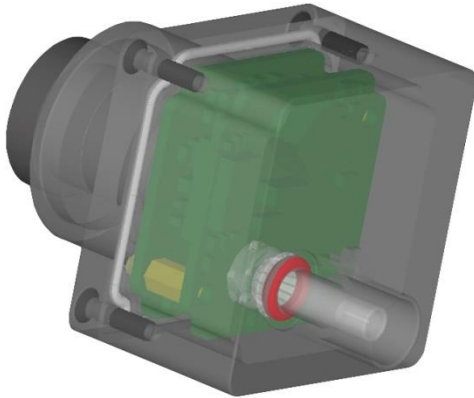


FAW-1233-03



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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) 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	

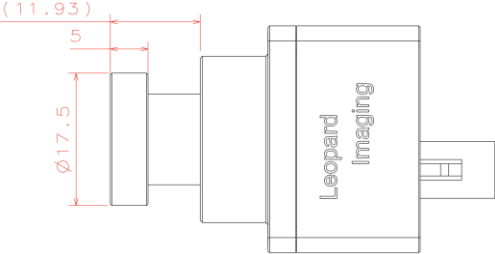
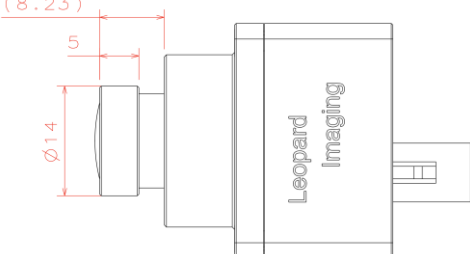
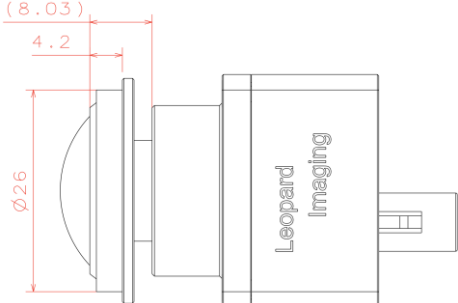


Lens Information

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

Note:

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

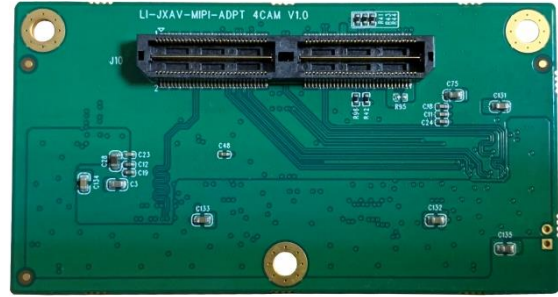
LI-AR0231-GMSL2-060H	LI-AR0231-GMSL2-120H	LI-AR0231-GMSL2-200H
		
Lens: M127B0618W Lens EFL: 6.0 mm FOV(D): 74.5° FOV(H): 60.6° FOV(V): 36.1°	Lens: M128B02820WM12R1 Lens EFL: 2.8 mm FOV(D): 148° FOV(H): 122° FOV(V): 74°	Lens: F132B0108WM12 Lens EFL: 1.08 mm FOV(D): 200° FOV(H): 200° FOV(V): 200°
		



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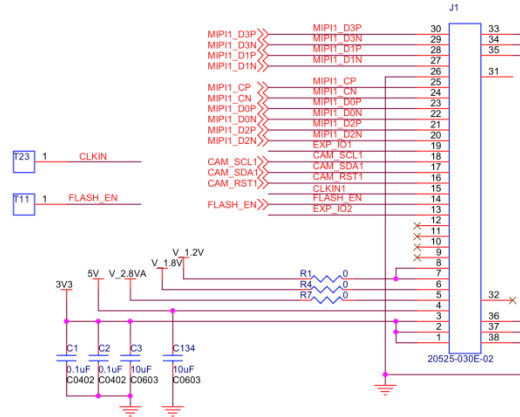
LI-JXAV-MIPI-ADPT-4CAM



Interfaces

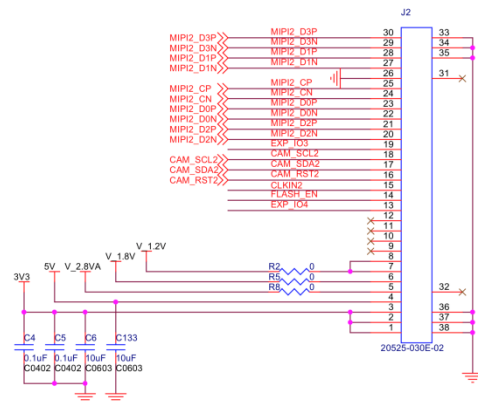
Interface J1

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



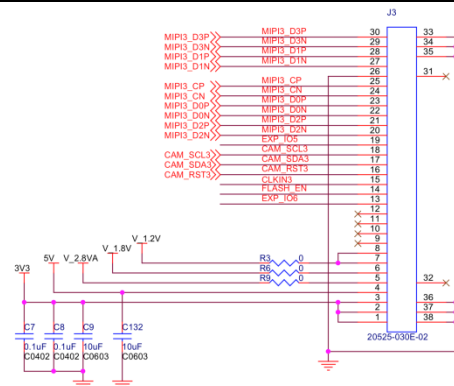
Interface J2

- 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)

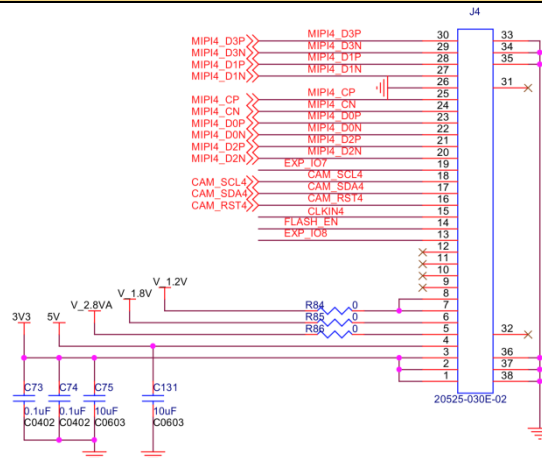


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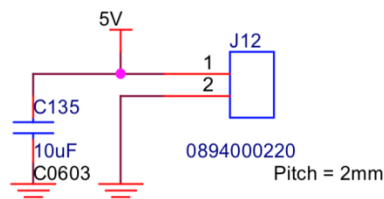
Interface J4

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



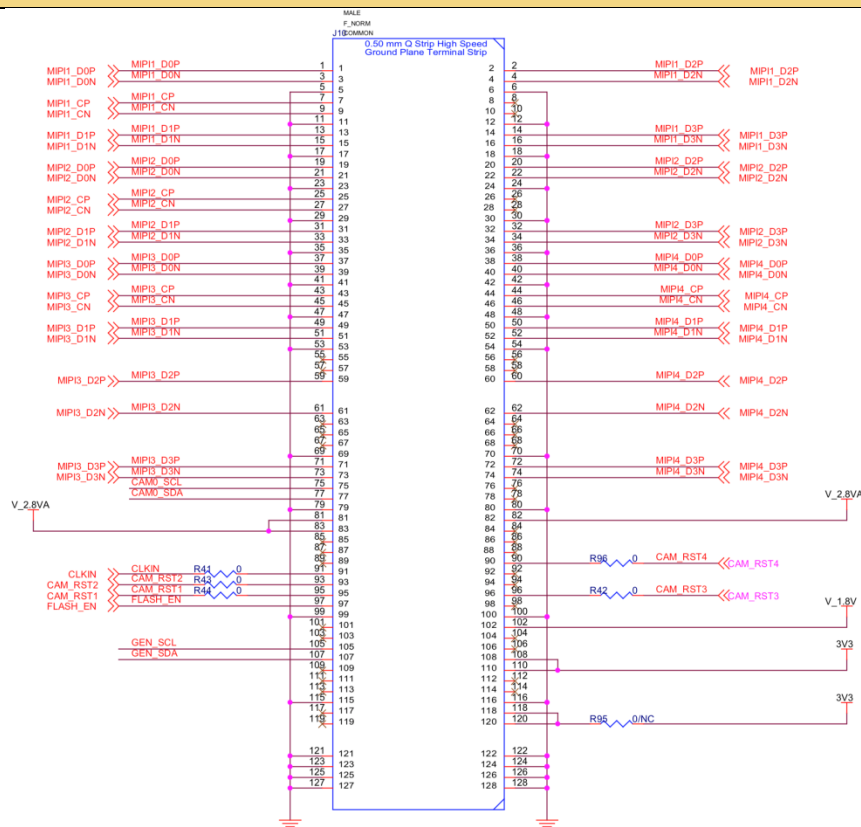
Interface J5

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



Interface J10

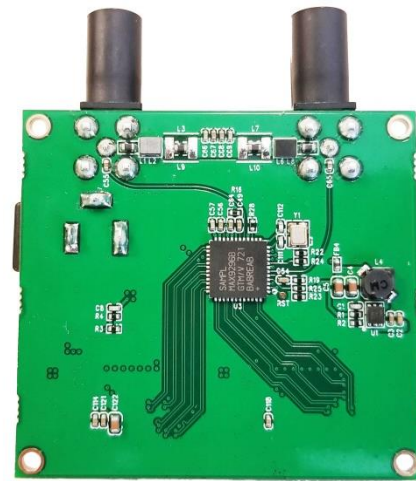
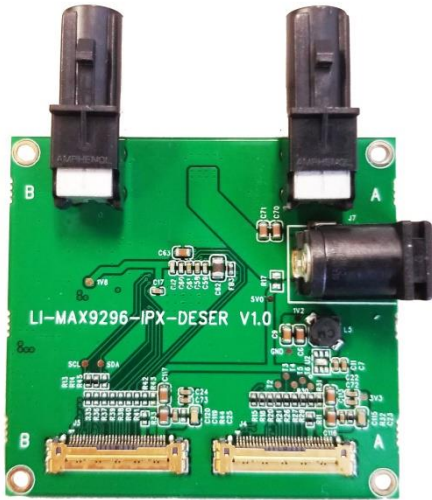
- Part#: QTH-060-01-L-D-A
- Number of Positions: 120
- Number of Rows: 2
- Pitch: 0.5 mm



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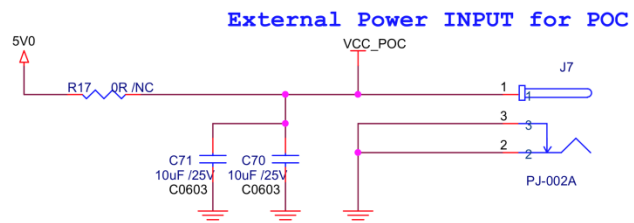
LI-GMSL2-IPX-DESER



Interfaces

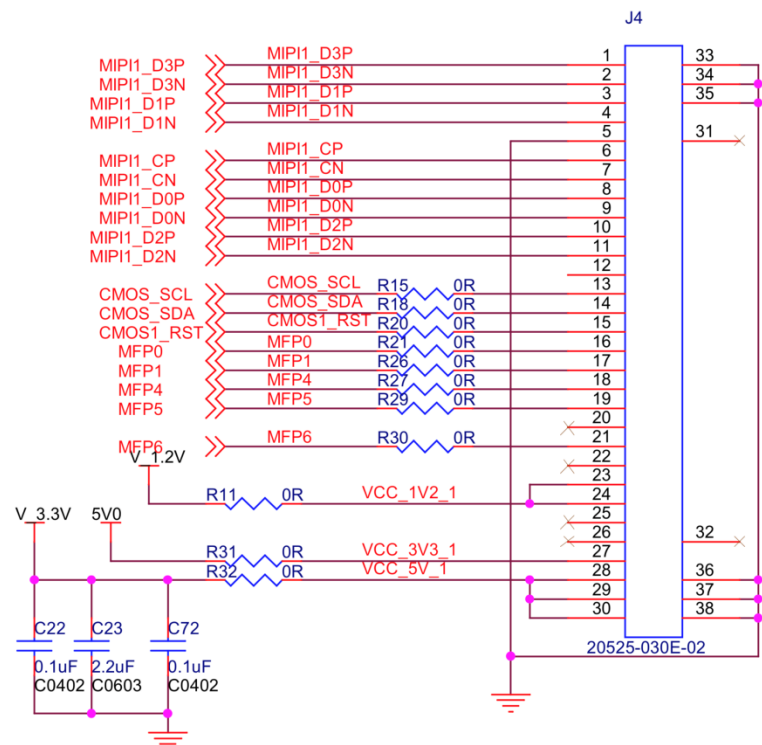
Interface J7

- 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)

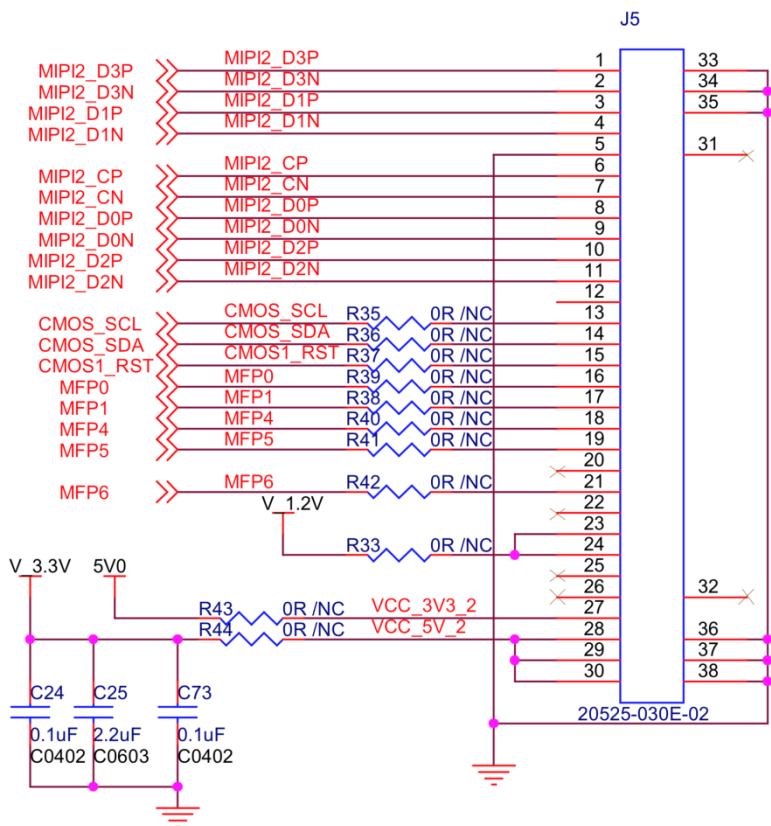


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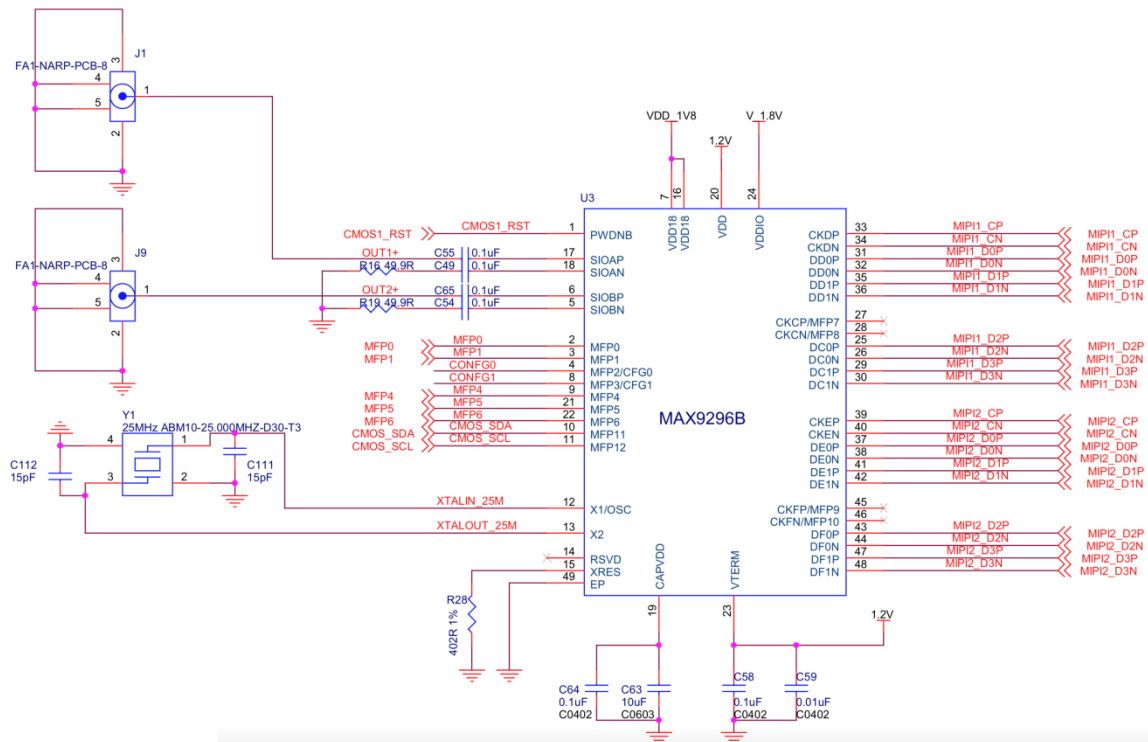
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Interface J5

- 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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