



LEOPARD IMAGING INC

LI-JETSON-IMX274-DUAL

Data Sheet

Key Features

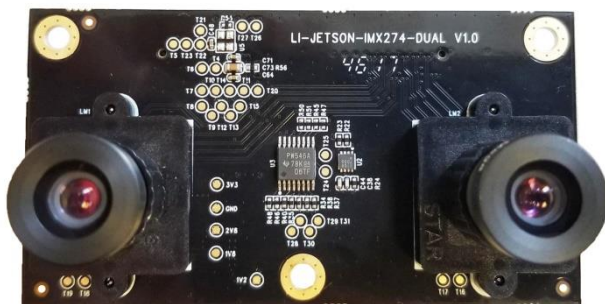
- Compatible with Nvidia Jetson TX1 / TX2 Developer Kit
- Sony Diagonal 7.20 mm (Type 1/2.5) CMOS Image Sensor IMX274
- Active Pixels: 3864 (H) x 2196 (V)
- Pixel Size: 1.62 x 1.62 μm
- Dual Camera
- Baseline: 50 cm
- Color Sensor
- Interface: MIPI output
- Supports M12 lens
- Includes IR cut filter (on lens)
- Connector: QTH-060-04-H-D-A-TR
- Module Size: 75 x 40 mm
- Weight: ~ 34 g
- Part#:

LI-JETSON-IMX274-DUAL-HK
LI-JETSON-IMX274-DUAL-SUN



Overview

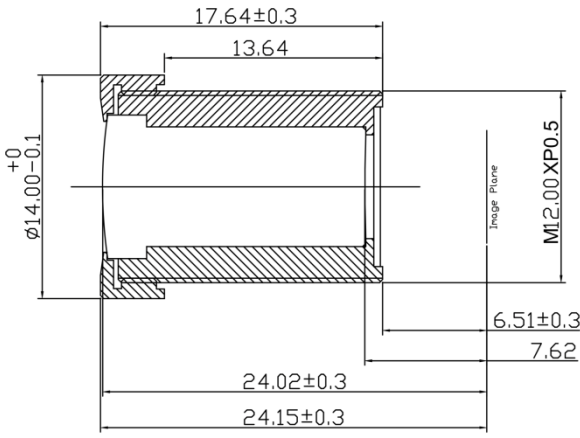
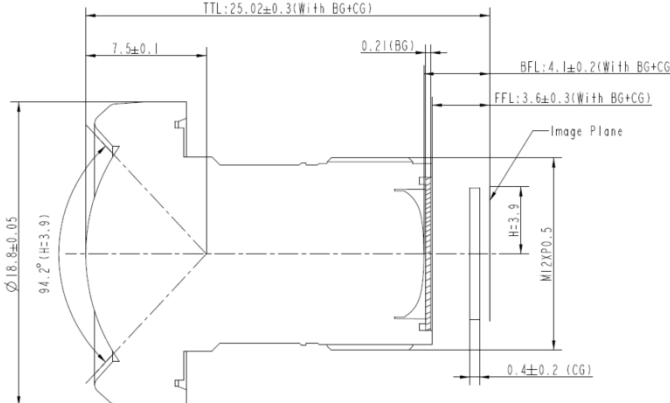
The LI-JETSON-IMX274-DUAL is a high-performance 8 Megapixel stereo camera based on two Sony IMX274 image sensors and a MIPI connector. It's compatible with Nvidia Jetson TX1 / TX2 Developer kit and supports 3840 x 2160 (4K) @ 60 fps video output.



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Lens Information

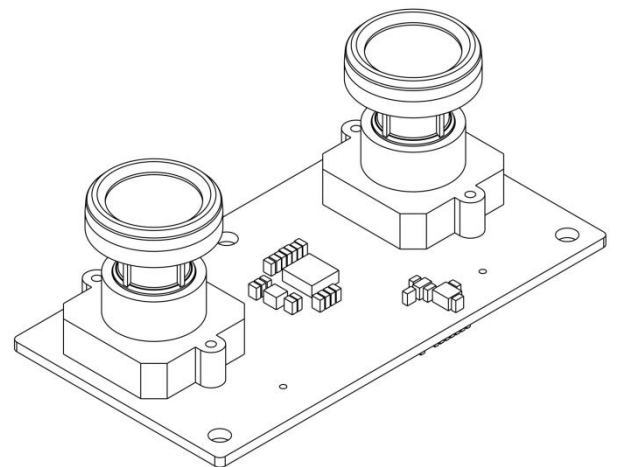
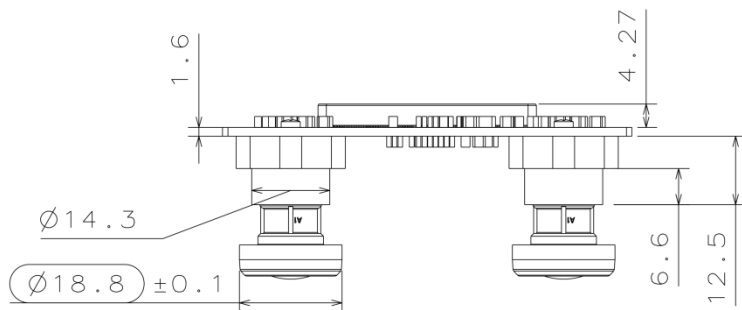
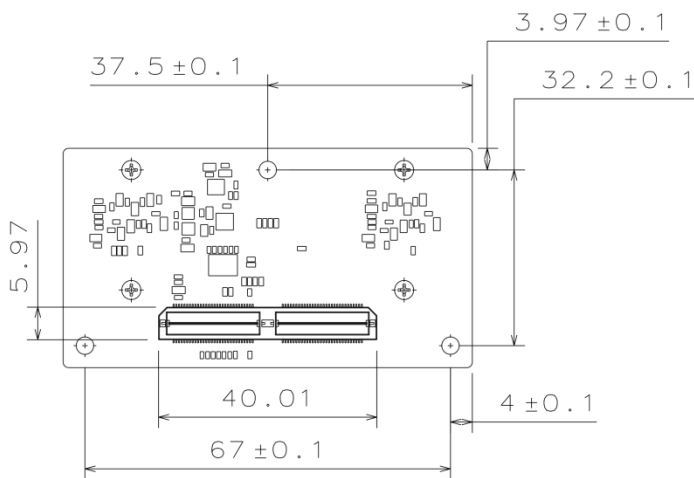
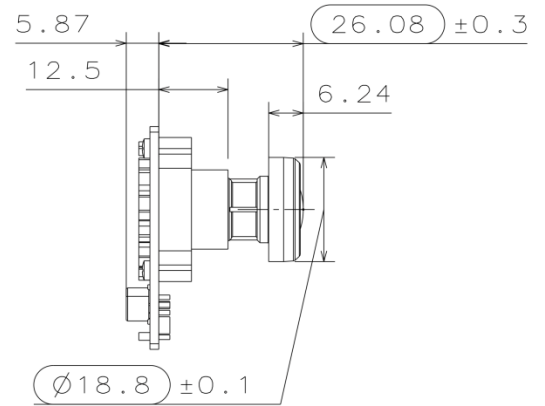
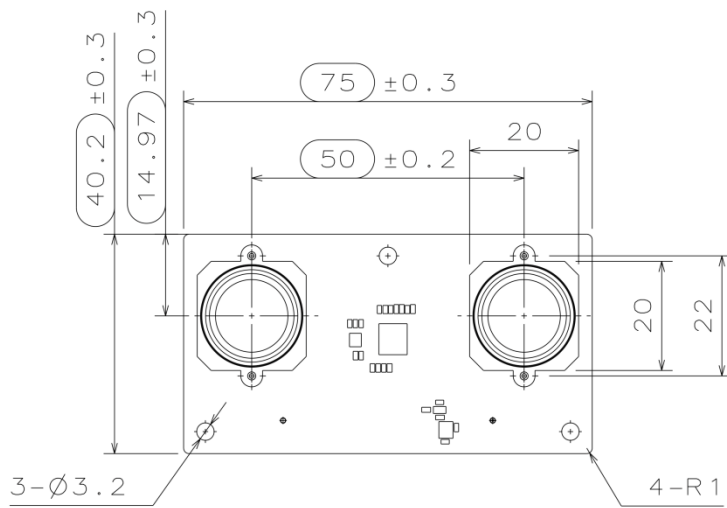
LI-JETSON-IMX274-HK	LI-JETSON-IMX274-SUN
	
■ Lens Part#: HK-8145-457-1 ■ Focal Length: 8 mm ■ F/#: 2.0 ■ Distortion: < -5% ■ FOV(D/H/V): 51° / 42° / 24° ■ BFL: 7.62 mm ■ FB: 6.51 mm ■ Element: 6G + IRF ■ Thread size: M12 x P0.5 ■ IR cut filter spec: - Tavg ≥ 88% @ 440 – 620 nm - T = 50% @ 648 +/- 10 nm - Tavg ≤ 3% @ 700 – 1000 nm - T < 5% @ 1050 nm	■ Lens Part#: SYD1201A ■ Focal Length: 3.7 mm ■ F/#: 2.8 +/- 5% ■ Distortion: -1.0% ■ FOV(D/H/V): 92° / 83° / 53° ■ BFL: 3.99 +/- 0.2 mm ■ FFL: 3.69 +/- 0.3 mm ■ TTL: 24.83 +/- 0.3 mm ■ Element: 4G2GM + IRF ■ Thread size: M12 x P0.5 ■ IR cut filter spec: - Tavg > 85% @ 420 – 650 nm



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Dimensions



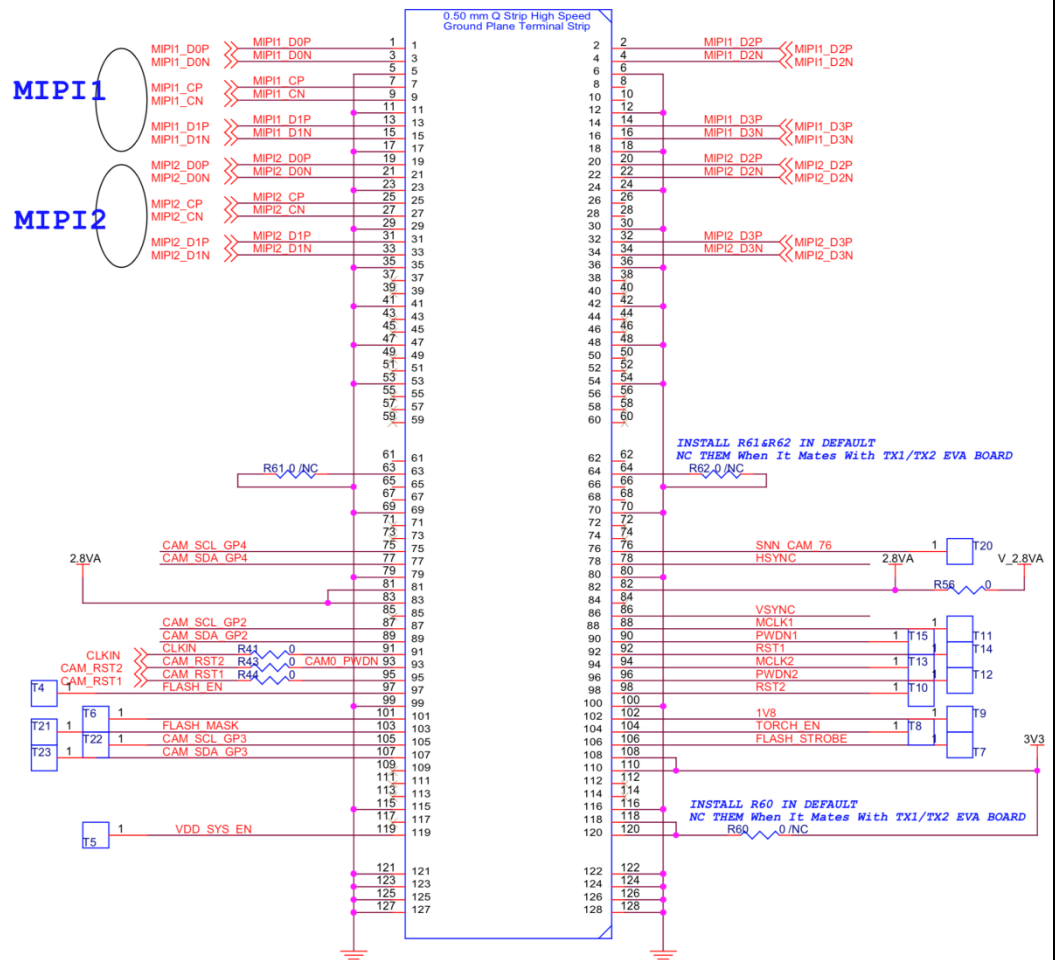
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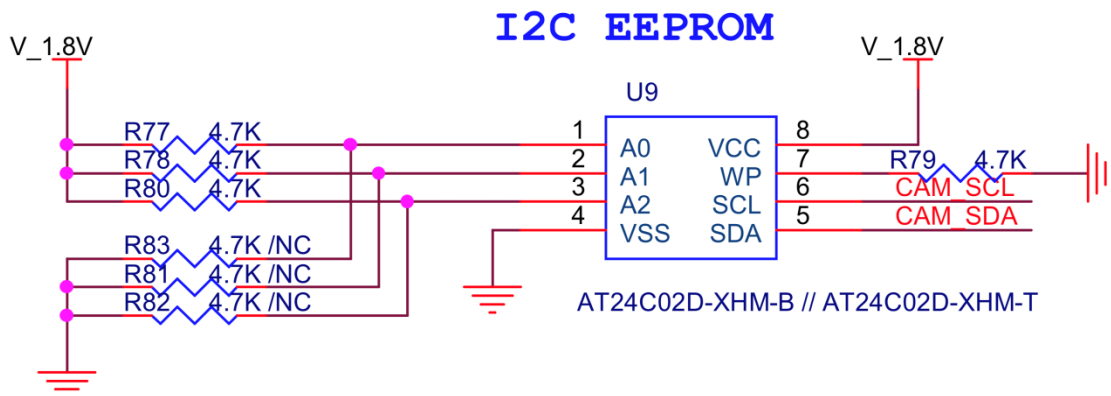
Pin Assignment

Connector J10

- Part#: QTH-060-04-H-D-A-TR
- Number of Positions: 120
- Number of Rows: 2
- Pitch: 0.5 mm



EEPROM



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Compatible with Nvidia Jetson TX1/TX2 Developer Kit



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Reliability Testing

Temperature test	Conditions	Time
High temperature	60°C	24H
Low temperature	-10°C	24H
Vibration Test	Conditions	Time
Random vibration	200 rmp (1 box)	30 min
Drop Test	Weight	Height
Drop	0.45-9.54 Kg (1 box)	76 cm
Drop	9.55-18.63 Kg (1 box)	61 cm
Drop	18.64-27.72 Kg (1 box)	46 cm
Drop	27.73-45.45 Kg (1 box)	31 cm
Other Test		
Exterior Visual Inspection	After each phase of the Temperature, Vibration and Drop test, do exterior visual inspection. 1. No obvious dents or scratches 2. No parts loosening or falling apart 3. No missing parts	
Image Test	After each phase of the Temperature, Vibration and Drop test, do image test. 1. No dust issue 2. No dead pixels 3. No unexpected Noises 4. No other unexpected image issues	
Focus Test	After each phase of the Temperature, Vibration and Drop test, check the focus of the camera at required focusing distance.	
EEPROM	Check the EEPROM ID of each unit	



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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



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