



**LEOPARD**  
IMAGING

# LI-ASTRO-ISX031-10GigE-118H



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## TECHNICAL FEATURES

- Compatible with NVIDIA® Jetson AGX Orin™ / IGX Orin™ / Thor™ Developer Kit
- Lattice® CertusPro-NX FPGA
- AQrate® 10GB Ethernet PHY Transceiver
- Sensor: Sony Diagonal 7.45 mm CMOS Image Sensor ISX031
- ISP: Sensor Integrated / Built-in Image Signal Processor
- Resolution: 1937 (H) x 1553 (V) (active pixels)
- Frame Rate: 1920 × 1536 @ 30 fps
- Output Format: YUV422 8-bit
- Focusing distance: 1 m
- Working Mode: Master mode / Trigger mode
- Dynamic Range: Max up to 120 dB
- IMU (Inertial Measurement Unit): BMI088
- Interface: 10G High-Speed Bus
- Connector: RJ45
- Power Supply: 12 VDC
- Power Consumption: TBD
- Operating temperature: TBD
- Storage temperature: TBD
- Weight: ~289 g
- Allows customization

## Applications

- In Cabin Automotive
  - ◆ Gesture Recognition
  - ◆ Iris Scanning
  - ◆ Head Roll
  - ◆ Eye Tracking
  - ◆ Machine Vision

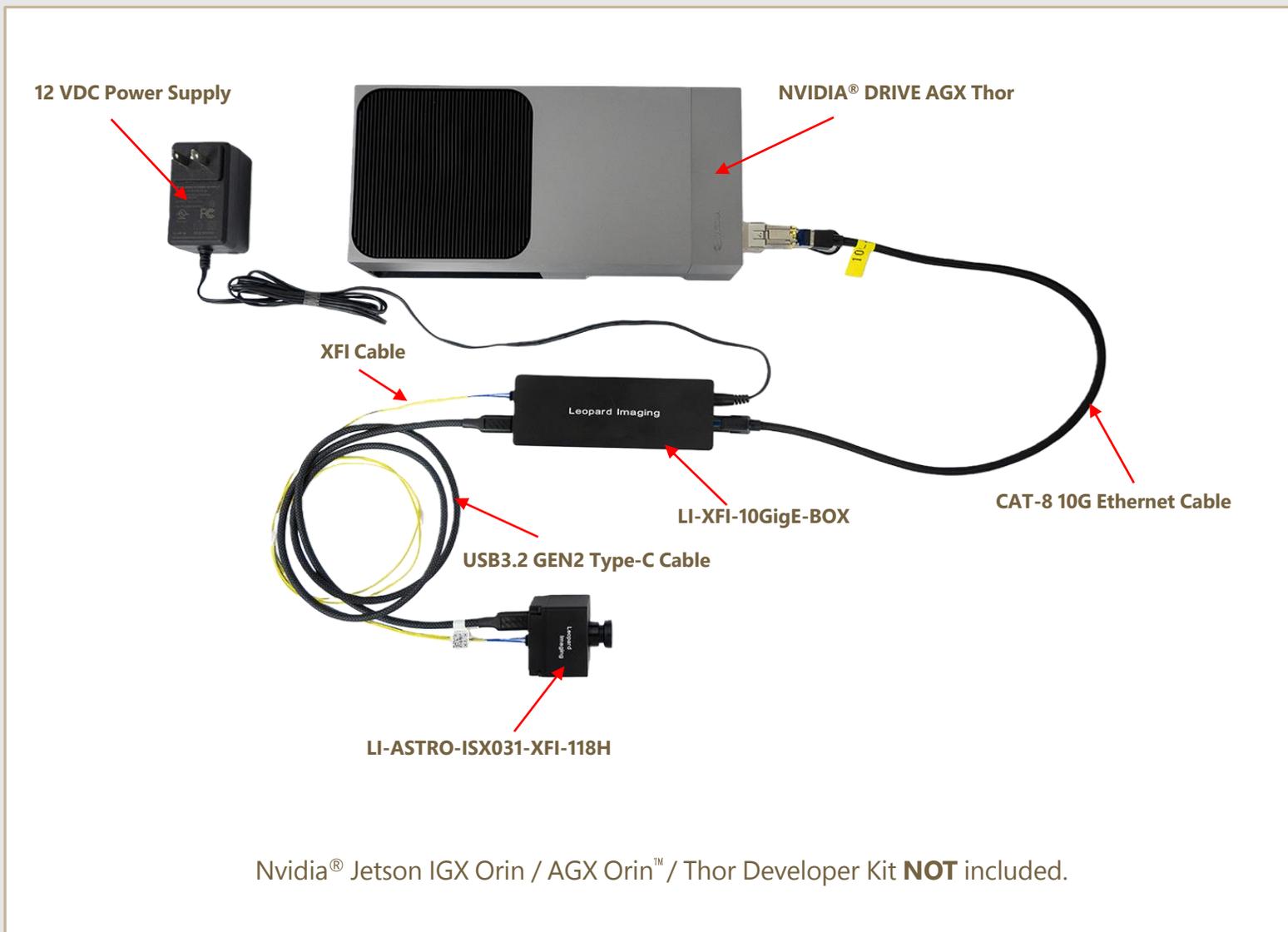
## LENS SPECIFICATIONS

Lens EFL	3.021 mm ± 5%
Aperture, F/#	2.0 ± 5%
Field of View (FOV)	118° horizontal
Optical Distortion	-88.59% ± 5% (f-tan θ)
Relative Illumination	49.81%
IR Filter	700 nm IR cut filter
Lens Mount	M12 x P0.5

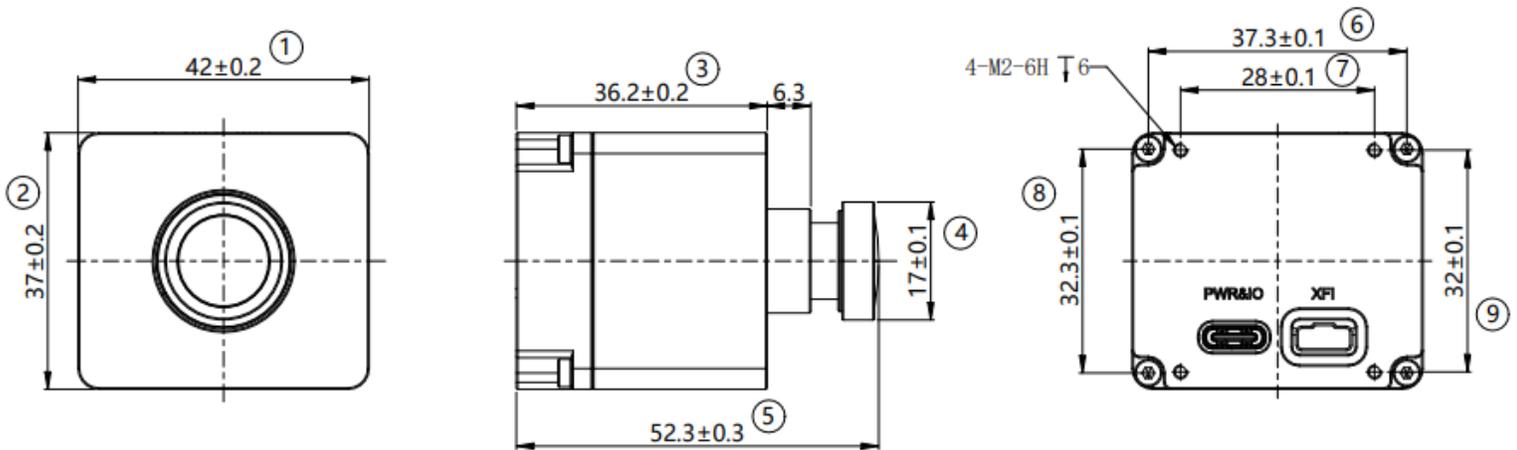
## BOM

#	Items	QTY
1	LI-ASTRO-ISX031-XFI-118H	1
2	LI-XFI-10GigE-BOX	1
3	XFI CABLE	1
4	USB 3.2 GEN2 TYPE-C CABLE	1
5	CAT-8 10G Ethernet Cable	1
6	12 VDC Power Supply (Only for test)	1

## Typical connection



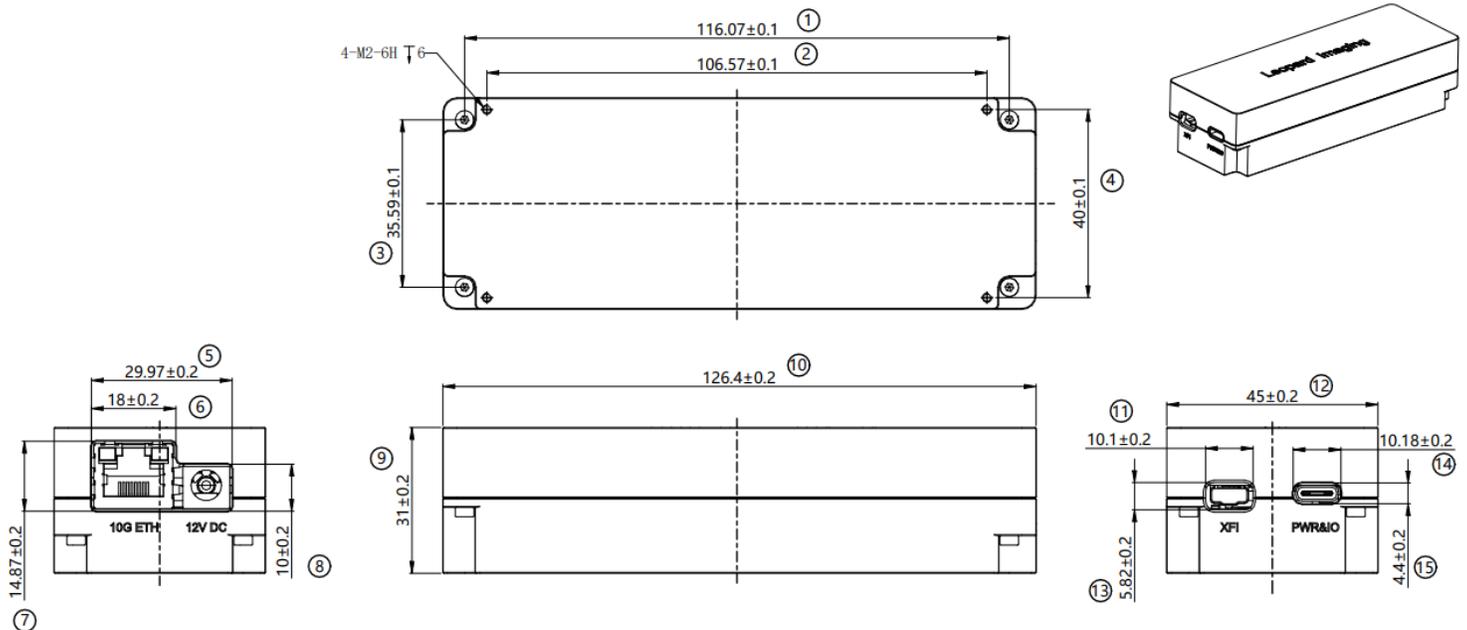
## DIMENSIONS: LI-ASTRO-ISX031-XFI-118H



### NOTE:

- Other unmarked tolerance is  $\pm 0.3\text{mm}$ .
- $\otimes$  marked are important sizes.
- All materials are compliant with RoHS requirements.
- Unit: mm

## DIMENSIONS: LI-XFI-10GigE-BOX

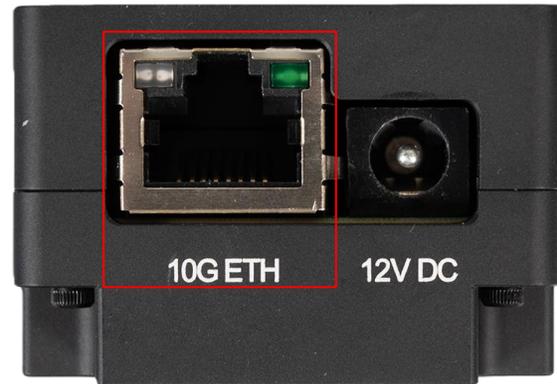


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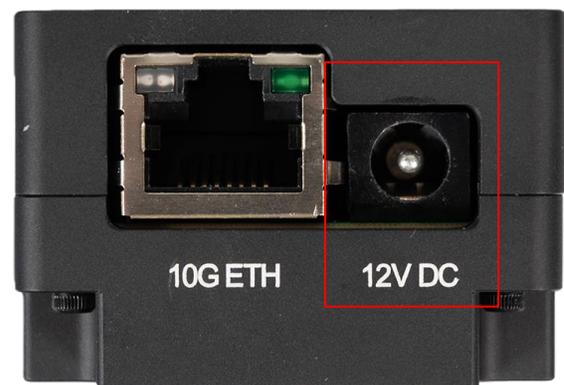
## • RJ45 10GB Ethernet

- Part#: 7499811420
- Connector Type: RJ45
- Orientation: 90° Angle (Right)
- LED Color: Yellow, Green – Green
- Number of Cores per Jack: 8



## • External 12 VDC Power Supply

- Part#: PJ-063AH
- Number of Positions: 3
- Connector Type: Jack
- Inner Diameter: 2 mm
- Outer Diameter: 6.5 mm



- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	06 Feb 2026

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