



LEOPARD
IMAGING

LI-ISX031-10GSFP-118H



Address:

910 Auburn Ct
Fremont, CA 94538
USA



Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960



Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

TECHNICAL FEATURES

- Compatible with NVIDIA® Jetson AGX Orin™ / IGX Orin™ / Thor™ Developer Kit
- Lattice® CertusPro-NX FPGA
- Sensor: Sony Diagonal 7.45 mm CMOS Image Sensor ISX031
- Focusing distance: 1 M
- Depth range: TBD
- Resolution: 1937 (H) x 1553 (V) (active pixels)
- Working Mode: Master mode
- Output format: 8-bit YUV
- Interface: 10G SFP+
- Power Supply: 12 VDC
- Power Consumption: TBD
- Operating temperature: TBD
- Storage temperature: TBD
- Weight: ~ 120 g
- Allows customization

Applications

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

LENS SPECIFICATIONS

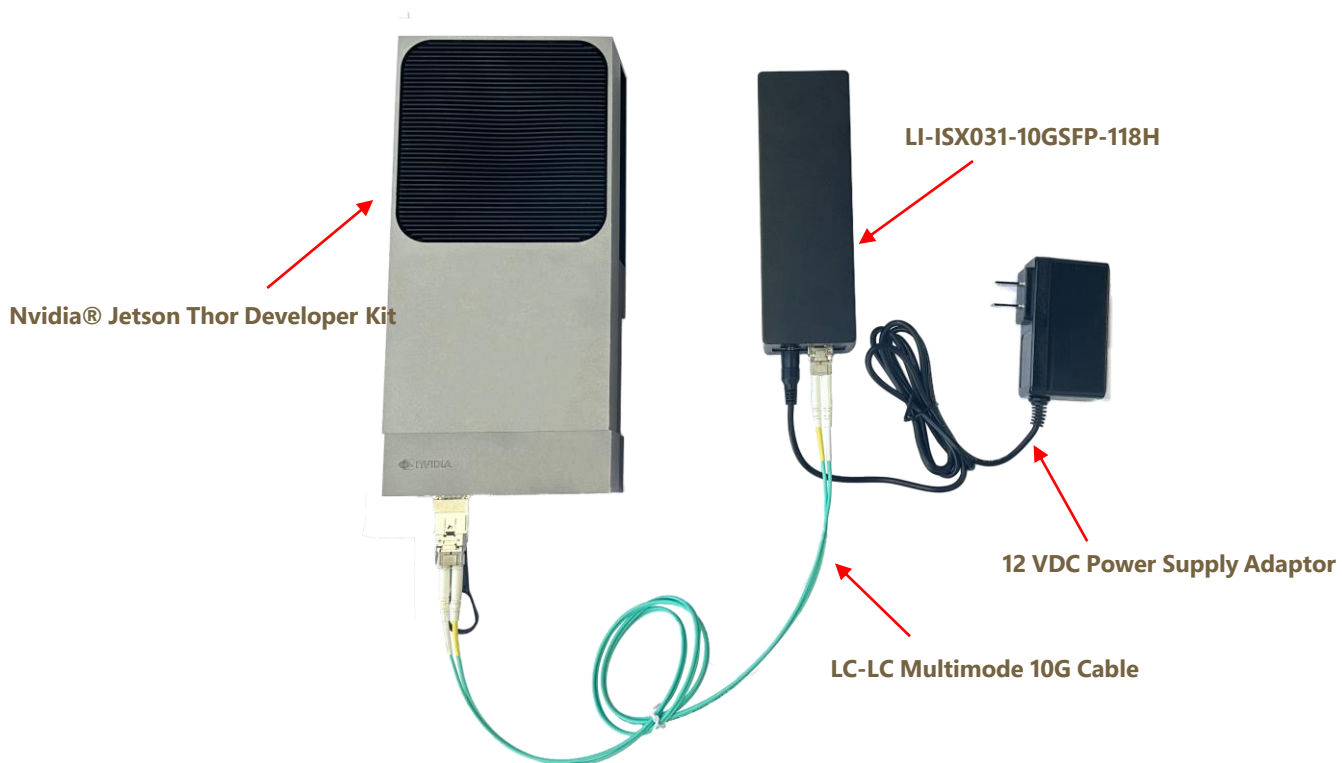
Lens EFL	3.021 mm $\pm$ 5%
Aperture, F/#	2.0 $\pm$ 5%
Field of View (FOV)	118° horizontal
Optical Distortion	-88.59% $\pm$ 5% (f-tan θ)
Relative Illumination	49.81%
IR Filter	700 nm IR cut filter
Lens Mount	M12 x P0.5



● BOM

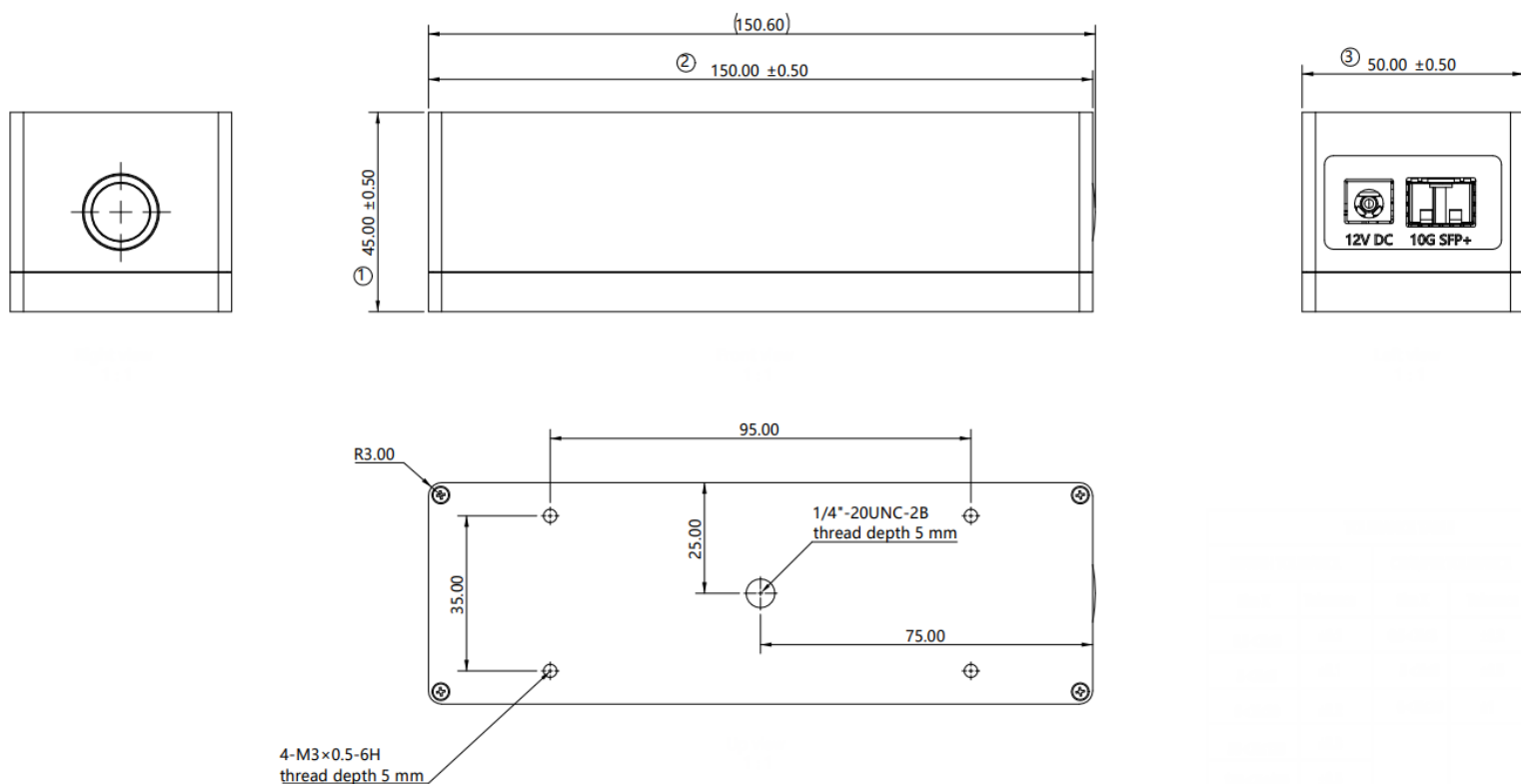
#	Items	QTY
1	LI-ISX031-10GSFP-118H	1
2	12 VDC Power Supply Adaptor	1

● Typical connection



Nvidia® Jetson IGX Orin / AGX Orin™ / Thor Developer Kit and LC-LC Multimode 10G Cable are **NOT** included.

DIMENSIONS



NOTE:

- Other unmarked tolerances refer to the tolerance table.
- $\otimes$ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Unit: mm

TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
$0.5 < X \leq 3$	± 0.1	$0.5 < X \leq 3$	± 0.2	$X \leq 10$	$\pm 1^\circ$
$3 < X \leq 6$	± 0.1	$3 < X \leq 6$	± 0.5	$10 < X \leq 50$	$\pm 30'$
$6 < X \leq 30$	± 0.2	$6 < X \leq 30$	± 1	$50 < X \leq 120$	$\pm 20'$
$30 < X \leq 120$	± 0.3	$X > 30$	± 2	$120 < X \leq 400$	$\pm 10'$
$120 < X \leq 400$	± 0.5			$X > 400$	$\pm 5'$
$400 < X \leq 1000$	± 0.8				
$X > 1000$	± 1.2				

10GB SFP+

- 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 In Default

- Part#: PJ-002A
- 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.	20 Nov 2025

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