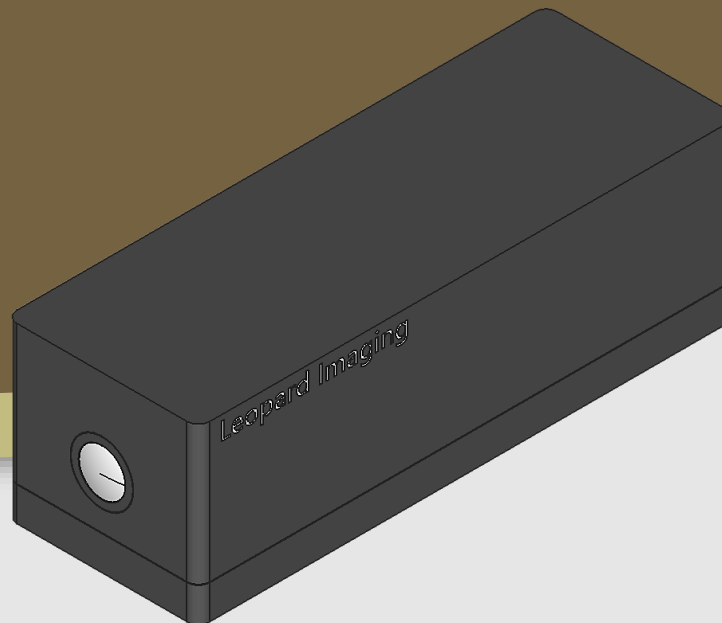




**LEOPARD**  
IMAGING

# LI-AR0830-10GigE-195H-POE



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## ● TECHNICAL FEATURES

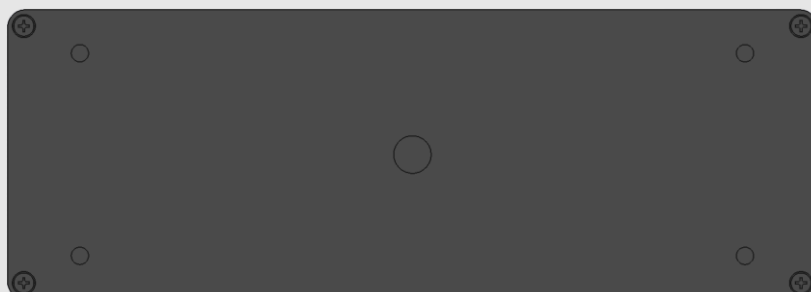
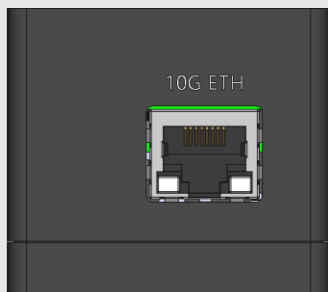
- Compatible with NVIDIA® Jetson AGX Orin™ and IGX Orin™ Developer Kit
- Lattice® CertusPro-NX FPGA
- Marvell® 10Gb Ethernet PHY Transceiver
- IMU (Inertial Measurement Unit): BMI088
- Sensor: ON Semiconductor 8Mp CMOS Digital Image Sensor AR0830
- Resolution: 3840 (H) x 2160 (V) (active pixels)
- Working Mode: Master mode
- Power Supply: PoE
- Allows customization
- Weight: TBD
- Power Consumption: TBD
- Operating temperature: TBD
- Storage temperature: TBD

## ● Applications

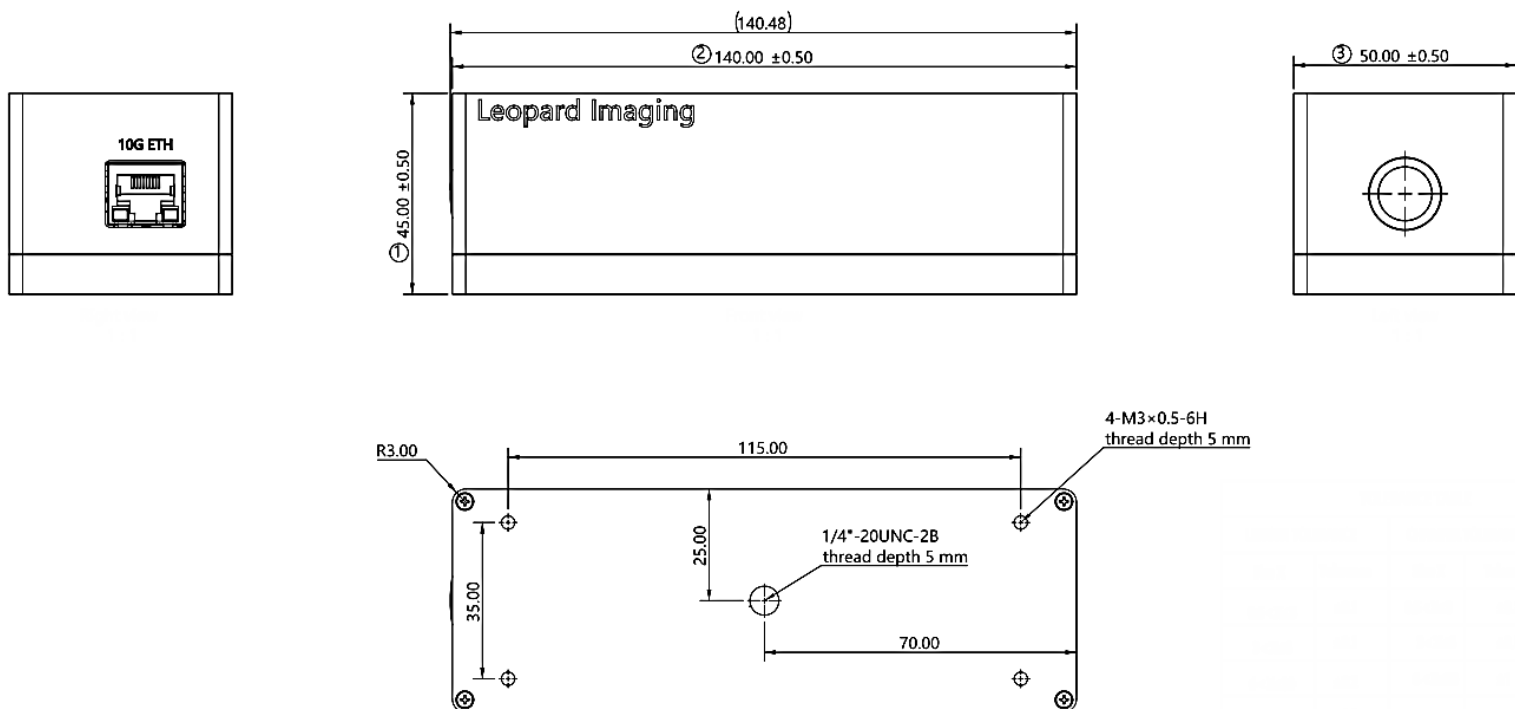
- In Cabin Automotive
  - ◆ Gesture Recognition
  - ◆ Iris Scanning
  - ◆ Head Roll
  - ◆ Eye Tracking
  - ◆ Machine Vision

## ● LENS SPECIFICATIONS

|                            |                 |
|----------------------------|-----------------|
| Focal Length               | 1.44 mm         |
| Aperture, F/#              | 2.0 ± 5%        |
| Field of View (FOV)        | 195° horizontal |
| Distortion ( $y=f\theta$ ) | +10% @ IH 2.77  |
| Relative Illumination      | 40.0% @ IH 2.4  |
| Lens Mount                 | M12 x P0.5      |



## DIMENSIONS



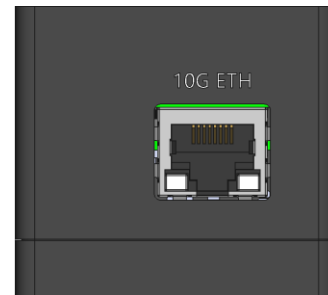
### NOTE:

- Other unmarked tolerances refer to the tolerance table.
- ⊗ 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 ≤ 3      | ±0.1      | 0.5 < X ≤ 3       | ±0.2      | X ≤ 10          | ±1°       |
| 3 < X ≤ 6        | ±0.1      | 3 < X ≤ 6         | ±0.5      | 10 < X ≤ 50     | ±30'      |
| 6 < X ≤ 30       | ±0.2      | 6 < X ≤ 30        | ±1        | 50 < X ≤ 120    | ±20'      |
| 30 < X ≤ 120     | ±0.3      | X > 30            | ±2        | 120 < X ≤ 400   | ±10'      |
| 120 < X ≤ 400    | ±0.5      |                   |           | X > 400         | ±5'       |
| 400 < X ≤ 1000   | ±0.8      |                   |           |                 |           |
| X > 1000         | ±1.2      |                   |           |                 |           |

- RJ45 10Gb Ethernet and PoE

- Part#: 7499811420
- Connector Type: RJ45
- LED Color: Yellow, Green – Green
- Number of Cores per Jack: 8

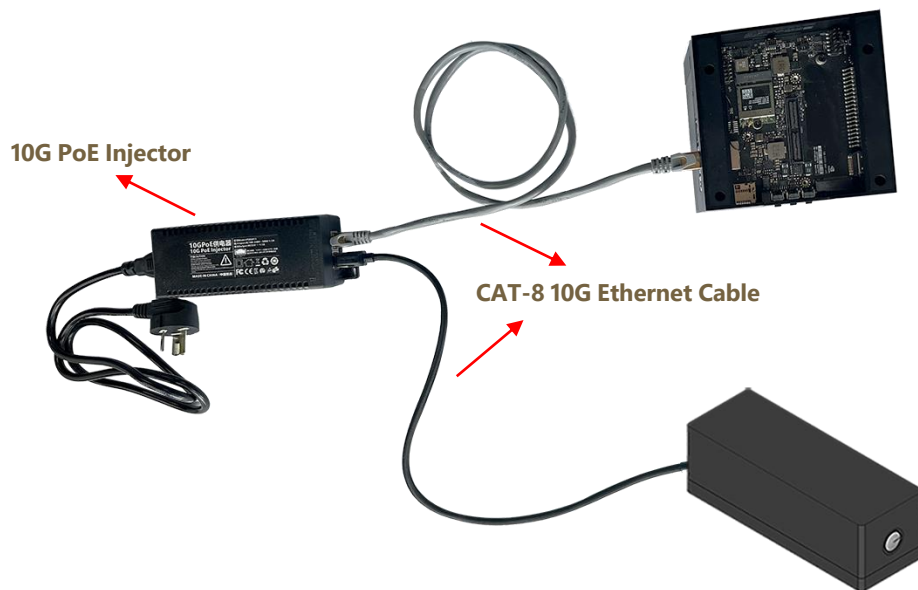


## BOM

| # | Items                     | QTY |
|---|---------------------------|-----|
| 1 | LI-AR0830-10GigE-195H-POE | 1   |
| 2 | CAT-8 10G Ethernet Cable  | 2   |
| 3 | 10G PoE Injector          | 1   |

Nvidia® Jetson AGX Xavier™ Developer Kit is **NOT** included.

## Supported platform: Nvidia Jetson AGX Orin / IGX Orin development kit



Nvidia Jetson AGX Orin / IGX Orin development kit is **NOT** included.

## ● REVISION HISTORY

| Revision | Description                                                                                                                                           | Release Date |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 0.1      | Initial draft.                                                                                                                                        | 11 Apr 2025  |
| 0.2      | <ol style="list-style-type: none"><li>1. Added BOM details.</li><li>2. Changed P/N from LI-AR0830-10GigE-195H to LI-AR0830-10GigE-195H-POE.</li></ol> | 24 Apr 2025  |

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