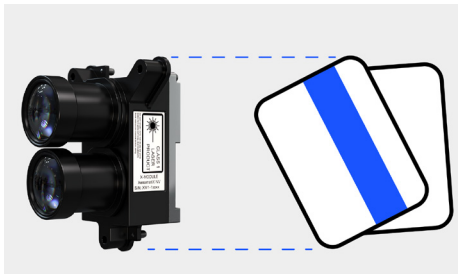


LiDAR

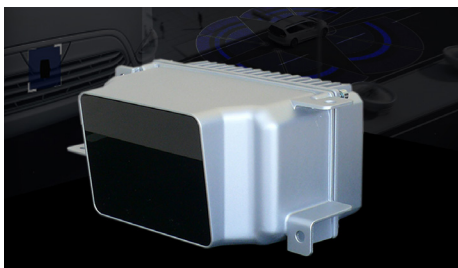
for Traffic Jam Chauffeur and Highway Pilot



Module-based LiDAR

Product Concept

- Sensor for combined short-range and long-range distance measurement, with ~65k pixel resolution
- Based on XenomatiX[®] exclusive AL-X module[™]
- Cyber secured, with FOTA compatibility
- Operating temperature: -40 °C/+85°C
- ISO 26262 ASIL B rated
- ISO/PAS21448 SOTIF to be aligned with application scope
- UL4600
- IEC 60825-1, eye safety Class1



Full LiDAR

Benefits

- Full solid-state sensor (no single moving part)
- Module technology reusable for other LiDAR applications with limited R&D effort
- Impact-resistant hard coated PC lens
- Fast installation with software calibration
- Aftermarket recalibration: compatible with most existing targets
- Connectivity: Automotive Ethernet 1G or 100Mbit/s bandwidth depending on data output requirements
- Embedded defrosting & optional cleaning solutions
- Optional Object Classification, based on embedded SoC
- Customizable regional & object category coverage



LiDAR classification output

Target

- High resolution lighting functions including Several use cases possible for Level 2+ to Level 5
- Applicable for Traffic Jam Chauffeur, Highway Pilot and more ADAS & AD features

Contact

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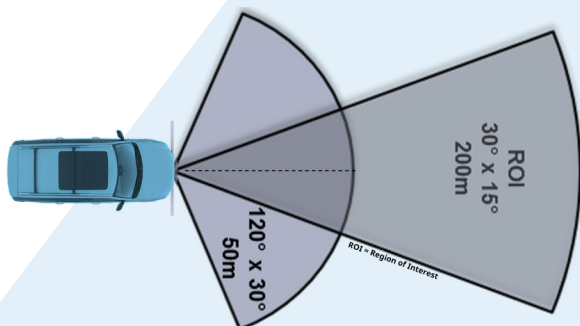
LiDAR

for Traffic Jam Chauffeur and Highway Pilot

LiDAR performances, all delivered simultaeously

Feature	Value
Horizontal FOV	120° with 30° center ROI
Vertical FOV	30° with 15° center ROI
Max range (@10%Ref)	200m inside ROI 50m outside ROI
Total Bandwidth @20Hz	65 Mbps
Number of points	1.35 M points/s @20Hz
ASIL	B
Size (HxDxW)	100x100x210 mm

Application Example



Usual LiDAR outputs can be following

1. Objects Detection & tracking
2. Objects Classification
3. Object 3D boxing («deep pose estimate»)
4. Free Space identification
5. Lane detection