• APTIV

Gen 8 Front Radar | FLR8



Range: 325 m



Accuracy ± 0.1 m

Product Overview

This forward-facing radar offers 4D perception, a detection range well beyond 300 meters, and excellent angular resolution. It reliably supports higher levels of automation through advanced safety features such as debris detection and adaptive cruise control. The ultra-short HD scan (UWB mode) enables short-range parking-assist features. It also supports AI/ML-based perception.

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Key Benefits

- Built-in Aptiv IP enhances radar performance without additional cost
- 4D radar supports higher levels of automation
- Ultra-short range HD scan (UWB) supports advanced parking capabilities
- Advanced safety features include drivable surface estimation and debris detection
- Excellent angular resolution facilitates reliable lane assignment and target selection in ACC applications
- Future resilience is achieved through compatibility with zonal architecture, optional Ethernet interface, and the ability to add ML for higher levels of autonomy
- Wide range of driving use cases is enabled through capabilities such as over/under-drivability

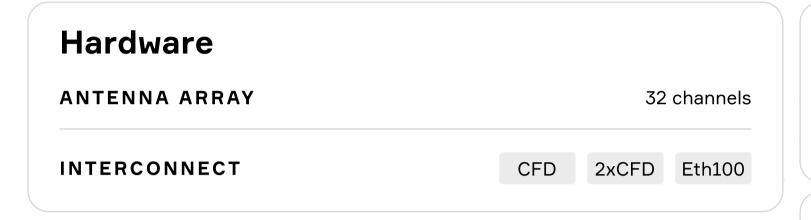
Key Value Drivers

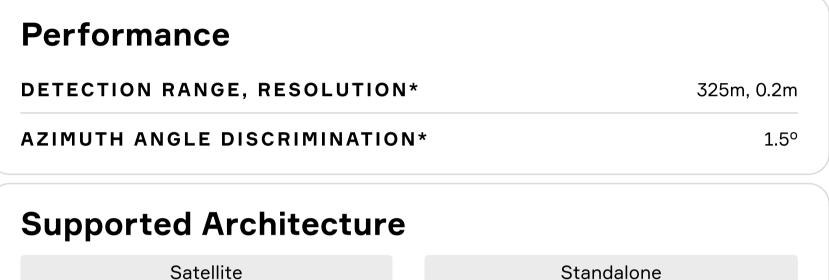
- Range is 15% greater than that of the previous generation and meets Euro NCAP 2025
 5-star specifications
- Supports compliance of NCAP 2026 and beyond, as well as FMVSS 127
- UWB-capable radars enable short-range parking features
- Flexible application supports standalone, satellite and streaming architectures
- System supports over-the-air flash programming

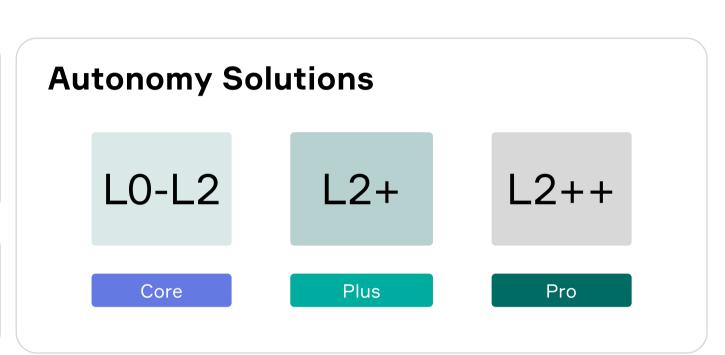
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TECHNICAL DETAILS









Motorbike Detect (5dBsm)	325m
Resolution (Bin Size) Normal / Parking	0.2m / 0.1m
Resolution (Bin Size)	0.09m/s
Accuracy	±0.05m/s
Coverage	±60°
Discrimination	1.5°
Accuracy	±0.5°
Coverage	±17°
Discrimination	3.0°
Accuracy	±0.5°
	87x67x21
	Resolution (Bin Size) Normal / Parking Resolution (Bin Size) Accuracy Coverage Discrimination Accuracy Coverage Discrimination

^{*} Pd = 50% Swr III; Nom radar; ambient temp; with Cl, -4dB Facia, 3° misalignment ~KPI's dependent upon specific installation and use conditions and final design Package size dimensions may change