



Cartex 4M

Cartex 4M is an extremely efficient perception software stack, for entry-level ADAS Smart Camera. Autobrain's hardware agnostic Cartex 4M solution fulfils a wide range of regulatory requirements and offers additional ADAS/AD comfort features over a low-compute, low power, and low-cost system. Cartex 4M is the most cost-effective solution for ADAS/AD applications targeting L0-L2 automated driving level.

 <h3>Cost Saving</h3> <p>Cartex 4M offers competitive quality to incumbent leading market solutions with a dramatic cost saving</p>	 <h3>Energy Efficient</h3> <p>Cartex 4M is highly efficient and can run on hardware platforms with 10x less compute-power compared to existing market solutions</p>	 <h3>Regulatory Compliance</h3> <p>Cartex 4M assists manufacturers to receive the necessary ADAS related NCAP points to achieve 4 stars rating</p>	 <h3>Comfort Features</h3> <p>Cartex 4M allows manufacturers to offer comfort features, for example, video-based ACC, on top of fulfilling regulatory requirements</p>
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Vehicle Functions



Perception Features

Object	Types
Lanes	Types: dashed, solid Colors: white, yellow, red, blue
Edges Road	Continuous elevated objects (walls, guard rails, etc) Curb stones Flat Road Boundaries (grass, gravel, sand, snow)
Signs Traffic	Signs from the European GSR regulation, Euro-NCAP 2023, and US traffic signs, including: Active, passive, implicit and cancellation speed limit signs Stop signs No-entry signs Give-way signs No passing and supplementary signs Electronic Signs

Enhancement Add-ons:

Cartex Fusion
Autobrain's unique low-level radar fusion technology can provide added features, including low-visibility and harsh weather conditions perception, enhanced range, velocity and orientation measurement, and crossing vehicle detection.

SOP Availability

Cartex 4M is available for vehicles start of production from Q2 2022.

Regulation

Cartex 4M achieves EuroNCAP 2023 4 stars and 2025 3 stars. With Cartex Fusion embedded, Cartex 4M can achieve a Euro NCAP 2023 5 stars rating.

Cartex 4M complies with EU GSR requirements.

Hardware

SoC:
0.2 TOPs and above

Camera:
2MP with 110 ° Field of View (FOV)

Radar:
Up to 3 radar sensors - one long-range front radar sensor and two short-range front corner sensors