The LLR4 is a monostatic multimodal radar in a very compact and elegant housing and uses, like its predecessors, the 77 gigahertz (GHz) frequency band. The main innovation in this fourth generation is the number of radar beams used, with six fixed radar antennas instead of four for the third generation. The LLR4 can detect other vehicles at a distance of roughly 250 meters. It enables Adaptive Cruise Control (ACC) at speeds of more than 160km/h, which can make up for large differences in speed without any intervention by the driver. The radar is equipped with a heated lens which ensures full sensor availability, even in poor weather conditions, such as snow and ice.

The system integrates two electronic boards, including NXP Semiconductor and STMicroelectronics microcontrollers and Bosch power management ICs. The radio-frequency (RF) board is manufactured with an asymmetric structure using a hybrid PTFE/FR4 substrate and is equipped with planar antennas.

Infineon 77GHz SiGe Monolithic Microwave Integrated Circuits (MMICs) are used as high-frequency transmitter and receiver. The two RF dies are packaged in the latest version of the eWLB Fan-Out Wafer Level Package developed and manufactured by Infineon.

Bosch LRR4 77GHz
Long Range Radar Sensor

The fourth generation of Bosch long range radar sensor sets new standards for a more elegant, compact and cost effective module.
# Overview / Introduction
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- Company Profile and Main Features
- Reverse Costing Methodology

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- Radar Opening
- Radar Dome Opening
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- Estimation of the Manufacturing Price

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**IC Price+**

This tool performs the necessary cost simulation of any Integrated Circuit: ASICs, microcontrollers, memories, DSP, smartpower...
Continental ARS4-A 77GHz Radar

The ARS4-A is a 77 GHz radar sensor offering simultaneous long and short range detection.

Autoliv 77GHz Multi Mode Radar

A compact, cost-effective and high-performance driving assistance system combining medium- and long-range detection.

Infineon RRN7745P & RTN7735P, eWLB Fan-Out Package - 77GHz Radar Dies

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