



HELLA brings latest 77GHz radar technology for passenger cars into series production

- **Innovative 77GHz radar sensors from HELLA are core components for automated driving**
- **Automotive supplier further expands position in radar sensor technology with numerous major orders**

Lippstadt, 5 May 2021. With over 90 million 24GHz sensors, the internationally positioned automotive supplier HELLA is one of the world's largest suppliers of radar sensors. With the introduction of the 77GHz radar sensors, the company is now further expanding its leading position in the field of radar technology. For example, series production of the latest 77GHz radar technology for an international automobile manufacturer has now started at the HELLA electronics plant in Hamm. The technology was first brought into series production in the truck sector last spring. On the basis of numerous successfully acquired major orders both for passenger cars, including one from a German premium customer, and for trucks, further production starts will follow in the near future. HELLA is also already developing the second 77GHz radar generation, which will go into series production for another German premium manufacturer in 2024.

"With our innovative 77GHz radar sensors, we are continuing to drive the trend towards automated driving," says Björn Twiehaus, who, as a member of the HELLA Management Board, is jointly responsible for the Electronics division. "By using highly efficient hardware and smart software, we are taking radar-based 360-degree environment perception to the next level and are thus driving safe mobility."

On the way from assisted to autonomous driving, radar sensors have established themselves as one of the core technologies for seamless environment perception. They continuously record the environment, recognize pedestrians and other traffic participants and objects around the vehicle - and deliver reliable results regardless of weather and lighting conditions. Especially with regard to functions such as autonomous parking or automated lane changes, 77GHz technology is becoming



increasingly important, as it offers a significantly larger signal bandwidth and thus improved environmental resolution compared to 24GHz. This makes it easier to detect and classify objects on the road.

The centrepiece of the 77GHz radar sensors from HELLA is the radar system chip, which is based on RF-CMOS technology. Thanks to the special architecture, digital components as well as systems for self-diagnosis can be integrated on the chip in addition to the components for transmitting and receiving. HELLA radar sensors are also based on a modular, scalable platform concept. They thus support different vehicle architectures and interfaces such as Ethernet. Customer-specific requirements as well as current and future NCAP requirements can thus be implemented flexibly and efficiently.

HELLA is continuously working on further increasing the performance of the 77GHz radar sensors. The second generation 77GHz is characterized in particular by the latest antenna and chip technologies. This increases the range, extends the field of view and further improves the measuring capability at close range. Objects such as trucks, cars, bicycles and pedestrians can be detected and tracked even more precisely in this way, which ultimately leads to more informed decision-making rules, for example when initiating a lane change or parking. With this, the position and height of even small objects such as kerbs and roadside posts can also be determined more accurately.

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PRESS RELEASE



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