**sps 2019: HIMA presents HICore 1 safety SoC**

**Platform enables safety-oriented product development with focus on secure communications**

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**HIMA Paul Hildebrandt GmbH, world's leading independent provider of smart safety solutions for the industrial sector, is presenting the HICore Embedded Solutions platform at sps 2019 (November 26-28, 2019) in Nuremberg at Stand 267 in Hall 6. This integral platform is precertified by TÜV and supports the development of safety-oriented products with secure communications.**

Products to be certified according to IEC 61508 up to SIL 3 and/or ISO 13849-1 up to PL e can be developed efficiently and quickly based on the HICore 1 safety SoC and associated software package. In particular, the modular software platform – already certified by TÜV Rheinland – consisting of the operating system and middleware allows safe products to be launched within a predictable time frame. Secure communications with other devices and controllers (safety PLCs) is especially important for future functional security products. With the existing implementations of Fail Safe over EtherCAT (FSoE), HIMA ISOFAST and PROFIsafe, as well as the CIP Safety and CANopen Safety functions currently being developed, HICore 1 offers an excellent platform for this. The modular architecture of the software package allows different versions of the same product, with a variety of fieldbus connections, to be developed without undue effort and expense.

Interested parties can learn more about the full range of HIMA offerings at the HIMA stand. They include consulting services, support for certification, and engineering up to turnkey production. Safety-critical systems must be functionally safe, and this safety has to be proven by certifications. In more and more cases, functional safety is not only a decisive consideration for customers, but also a considerable time and cost factor for development departments and companies. Here they face a twofold challenge: rising development costs for increasingly complex products are often multiplied by growing safety requirements. In today's world with pressure from cost cutting and tight market launch deadlines, unnecessarily high certification expense is undesirable and uneconomical. Being able to draw on precertified safety solutions thus gives companies a key advantage.

“With HICore 1, the smallest TÜV-certified safety SoC, innovative product and system manufacturers can make their solutions safe and certifiable,” says Dr. Stefan Gölz, Director Technology Embedded Solutions at HIMA. For developers, the package solution based on HICore technology results in distinctly lower effort because it dramatically simplifies and accelerates TÜV approval of their own products in line with IEC 61508 up to SIL 3 or ISO 13849-1 up to PL e. As a result, time to market can be shortened by 30 to 70 percent, depending on project size and scope.”

Users can personally choose the configuration of their HICore solution, from safety-SoC to finished boards. HIMA guides and supports the entire process, from specification through TÜV approval to production. With HICore 1, SIL 3 safety can be easily and economically integrated in many industries, even with networked applications. Numerous safety network protocols are already available, so the Industry 4.0 concept of safe and highly efficient machine-to-machine communications is also supported. Examples of typical application areas include safety-oriented controllers and safe monitoring of driverless transportation systems, drives, logistics and intralogistics, sensors, actuators, and power plants.

**About HIMA**

The HIMA Group is the world's leading independent provider of smart safety solutions for industrial applications. With more than 35,000 installed TÜV-certified safety systems worldwide, HIMA qualifies as the technology leader in this sector. Its expert engineers develop customized solutions that help increase safety, cyber security and profitability of plants and factories in the digital age. For over 45 years, HIMA has been a trusted partner to the world's largest oil, gas, chemical, and energy-producing companies. These rely on HIMA solutions, services and consultancy for uninterrupted plant operation and protection of assets, people and the environment. HIMA’s offering includes smart safety solutions that help increase safety and uptime by turning data into business-relevant information. HIMA also provides comprehensive solutions for the efficient control and monitoring of turbomachinery (TMC), burners and boilers (BMC) and pipelines (PMC). In the global rail industry, HIMA’s CENELEC-certified SIL4 COTS safety controllers are leading the way to increased safety, security and profitability. Founded in 1908, the family-owned company operates from over 50 locations worldwide with its headquarters in Bruehl, Germany. With a workforce of approximately 800 employees, HIMA generated a turnover of approximately €123 million in 2017. For more information, please visit: [www.hima.com](http://www.hima.com)

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