

Press Release

Universal control solution for single and endurance tests of vehicle components and interiors

SmartController from GÖPEL electronic offers a framework and versatile interfaces for controlling demanding tests, demonstrations, and laboratory applications

In the automotive sector, individual components—such as vehicle seats—often need to be tested or demonstrated independently of the overall configuration to ensure functions such as adjustment ranges, massage, heating, and ventilation. However, the control elements and power supply configured for the final vehicle are not available for this purpose. GÖPEL electronic has developed the SmartController for this application. This universal control solution is designed for demanding individual or endurance tests, presentations, and functional demonstrations, as well as laboratory applications. The powerful platform combines modern hardware, flexible software architecture, and intuitive operating concepts in a compact system.

The SmartController is based on the proven Serie62 G CAR 6281 hardware platform and offers a modular architecture with versatile interfaces. With this, GÖPEL electronic has created a universal hardware foundation that can be used across projects and customized as needed—a clear advantage for test environments with changing requirements. Thanks to its high scalability, the SmartController supports up to eight bus interfaces, providing comprehensive support for automotive communication standards such as CAN, CAN-FD, LIN, and Automotive Ethernet—including residual bus simulation, diagnostics, and monitoring. The integrated Ethernet and Wi-Fi connectivity enables seamless networking and easy integration.

The generic software framework architecture ensures that future projects and new requirements can also be implemented efficiently. This makes the SmartController suitable for both long-term endurance tests and dynamic development and presentation environments.

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A key feature is the tablet control framework, which enables modern and convenient operation. Its uniform structure allows for use in various projects while maintaining a consistent user experience. Features such as the “Sticky Keys” input assistance (“Touch ’n’ Click / Make ’n’ Break”) support ergonomic and safe operation—regardless of the hardware used.

With the SmartController, GOPEL electronic underscores its commitment to providing future-proof, modular, and practical solutions for vehicle development and industrial test applications.

About GOPEL electronic

GOPEL electronic develops and manufactures innovative electrical and optical test, measurement, and inspection equipment for electronic components and printed circuit board assemblies as well as industrial and automotive electronics systems. GOPEL electronic has four business units:

- Automotive Test Solutions
- Embedded JTAG Solutions
- Inspection Solutions AOI-AXI-SPI-IVS
- Industrial Function Test

The company is active worldwide, with its own subsidiaries as well as through distributors, and generated sales of approximately 40 million euros in 2023 with 240 employees.

Further information: www.goepel.com/en

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