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## SMART IN OVATION

SMART IN OVATION GmbH, with headquarters in Stuttgart, Germany, has been a supplier of innovative control system and software products and associated services for automotive and industrial clients for more than 30 years.

### Control Solutions

The Control Solutions operational division produces premium industrial and positioning control systems based on the SMARTcontrol modular system building kit; these systems can also be tailored to the client's individual requests. SMARTcontrol systems can be freely programmed with the leading SPS programming system CODESYS. All the relevant process data is registered and visualized using the SMARTcontrol Log PC software. Our control systems feature ergonomic design, very straightforward operation and the highest levels of reliability. They are used all over the world in the areas of food-related technology and mechanical engineering. SMARTcontrol Industrial PCs and SMARTcontrol Touch control panels for use in rough environments complete the product portfolio.

### New Energy

With the Solar LED Controller SLC, the New Energy Operational Division offers control electronics for off-grid solar street lights. With the PVchecker product, and the associated online portal, a monitoring solution that is independent of both manufacturer and inverter is offered at string level for photovoltaic equipment. The product portfolio is complemented by innovative Smart Grid solutions.

### Flash Solutions

The Flash Solutions operational division offers solutions that enable software updates for electronic products in all stages of the product cycle – from development to production to service. The Flash Boot Loader ADLATUS<sup>®</sup> is an embedded software solution that contains all the software update functions. These include, among others, functions such as access protection, integrity checks and data compression. The conformity tester FlashCedere<sup>®</sup> is used for the provision of automated quality assurance.

### Com Solutions

The Com Solutions operational division develops test solutions for communication logs. FlashCedere<sup>®</sup> is a PC-based conformity tester for all common bus systems such as FlexRay, Ethernet, CAN, LIN and K-Line. Different product specifications enable the automated testing of communication behavior in automotive control devices and industrial control systems. FlashCedere<sup>®</sup> is used for quality assurance on embedded software by market leaders all over the world.



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Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. ADLATUS<sup>®</sup>, FlashCedere<sup>®</sup>, Intel<sup>®</sup>, Intel Atom<sup>®</sup>, CANopen<sup>®</sup>, FlexRay<sup>®</sup>, CODESYS<sup>®</sup> and Linux<sup>®</sup> are registered trademarks of their respective owners. All product designations may be trademarks or product names of SMART IN OVATION GmbH or other companies or foundations whose use by third parties for their own purposes could violate the rights of the owners.

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# SMARTcontrol IPC SMARTcontrol Touch

Professional industrial personal computers and Touch control panels for operation in a harsh environment



# SMARTcontrol IPC SMARTcontrol Touch

Professional industrial personal computers and Touch control panels for operation in a rough environment

The SMARTcontrol IPC and SMARTcontrol Touch product lines are designed for use in industry under rough conditions. They feature a robust, stainless steel casing with safety glass and sealing classes up to IP69K. The displays, which are equipped with cutting-edge project-capacitive Touch technology, are available in various sizes.

## SMARTcontrol IPC

The SMARTcontrol Industrial PCs are operated on a Windows computer with an Intel ATOM processor and an SSD data carrier, with a preinstalled standard Windows operating system. You can install and run your choice of Windows applications according to the stage of development.

The integrated cooling concept enables the IPC to be operated even at high ambient temperatures. The most important interfaces, such as Ethernet and USB, are available on the rear side via IP65-protected connections.

## SMARTcontrol Touch

The SMARTcontrol Touch control panels are adapted Industrial PCs, which are equipped with an individualized, Windows-embedded operating system. Your application can be installed and run on a mSATA Flash data carrier.





## AREAS OF APPLICATION

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SMARTcontrol products are developed for use in the roughest of environments. They fulfill the very strict requirements of the IP69K protection class and, together with our SMARTcontrol systems, are used world-wide in food production. The premium stainless-steel glass fronts not only look good, but are also resistant to damage caused by common cleaning agents and high-pressure cleaners.

## INDIVIDUALIZATION/ OEM SOLUTIONS

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Due to the flexibility of our manufacturing, we are in a position to take individual customer requests into account. From imprinted glass coverings and specific computer configurations to individually designed user interfaces and casings, we are able to fulfill your requests. This means that we build a product that you can market under your own label. Talk to us!

## COST-EFFECTIVE, INNOVATIVE AND RELIABLE

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Isn't that all in contradiction with the costs? No, because your individual solution is based on the SMARTcontrol modular system building kit and therefore combines individuality, quality and economic feasibility: all criteria for success. The SMARTcontrol modular system building kit consists of innovative hardware and software modules for all areas of measuring, control and regulation technology. We have been using these elements for years and, with these, we are able to offer cost-effective, reliable solutions, even for small and mid-sized quantities. Challenge us!

## THE BENEFIT TO YOU

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- // Excellent design in glass and stainless steel technology
- // IP69K protection class (front), IP65 (rear)
- // Robust design for use in rough environments
- // Easy to clean
- // Wide range of applications: Food, medicine, chemistry, engineering, among others
- // Can be installed upright or horizontally
- // Individual customer appearance/ OEM product
- // Future-proof technology

## TECHNICAL DATA

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- // V2A stainless steel casing, safety glass
- // PC board with Intel ATOM processor
- // SSD or mSATA Flash data carrier
- // Windows Professional or Windows Embedded Standard
- // 24V DC connection, optional 90 – 230V AC
- // Ambient temperature 0 – 50 °C
- // Different display sizes with PCT controller (Projective capacitive Touch)
- // Ethernet, USB
- // Options: Linux, CODESYS, CANopen