

Reduced to the best.

prime
cube®

Customized Computer Systems



Visualize and Control
Solutions for the Packaging Industry

The best vertical solution.

Faster, safer, more efficient: control and visualization solutions for the packaging industry belong to the most demanding industrial applications. Packaging facilities are designed for 24/7 operation. Therefore all components must fulfill the highest requirements.

The high-class and individual Prime Cube solutions are based on modular components. They integrate specific features for use in packaging applications. If necessary, all solutions are designed to meet GMP requirements. Each device is adapted flexibly and precisely to your demand.

No matter how complex your requirements are, the best solution for your application makes everything easier: from long-term available systems for highest planning reliability and investment protection to special surface finishing for optimum cleanability and an optimized embedded operating system. Prime Cube is the brand for demanding enterprises trusting in German engineering and the most efficient solution. Reduced to the best.



Special features:

■ Hygienic Design

We develop all systems under strict observation of the hygienic requirements for use in the food and pharmaceutical industries, e.g. surface finishing, use of non-harmful materials, integration of authentication systems, design of the surfaces and bends without dirt-collecting edges.

■ Customized Computer Systems

From high-performance IPCs to performance-optimized embedded systems and remote operator stations: our industry solutions perfectly match your requirements, e.g. in terms of processor performance, housing material, protection classes or interface specifications. They are based on an innovative modular system which is augmented with all the needed functions.

■ Software all inclusive

All industrial computers and embedded systems are supplied with operating systems according to your specifications. You can choose from different standard and embedded operating systems. On request, PLC and SCADA software is pre-installed and executable. We administer and regularly update your individual software image for embedded and standard operating systems.

The best performance modules.



Performance-optimized systems

- Customized high-performance systems for demanding applications, e.g. industrial image processing and control
- Special interfaces, field busses and features, e.g. Firewire, Sercos or RFID
- Performance-optimized embedded operating systems
- ☑ Faster processes will lead to more productivity and efficiency
- ☑ Dedicated design will lead to highest operational reliability



Hygienic design and surface finishing

- Seamless, GMP-compliant front plate sealing as well as design for easily cleanable surfaces without beads and edges
- Hygienic surface refinement of stainless steel housings and front plates for best cleanability
- ☑ Quick and efficient cleaning of the surface
- ☑ Improved optics and reduced consumption of cleaning agents



Improved operator controls

- Capacitive and multi-touch capable touchscreens
- Windows 7 supports all multi-touch operations
- Widescreen displays, screen ratio 16:9
- Efficient LED backlight
- ☑ Easier and faster operation of touchscreens
- ☑ Improved ergonomic design of process diagrams



System design largely without fan and without rotating parts

- Completely fanless CPU cooling to the outside
- Use of CompactFlash media and solid state drives (SSD)
- Use of power supply units with particularly high efficiency
- ☑ Lowest power loss and heat generation
- ☑ Maintenance-free
- ☑ Reduced default risk of mechanical parts subject to wear

The best software packages.

For over 30 years we have been realizing customer-specific projects for different industries. Our know-how includes whatever is possible with current software and component-based operating systems.

Apart from the customer-specific hardware solution, we adapt all software packages precisely to the computer platform and the individual application. The complete software configuration stands out by optimized total performance, functional compatibility and user-friendliness. All installed and configured software facilitate the start-up as much as possible.

We also simplify the management of your operating system image which we archive and regularly update when necessary.



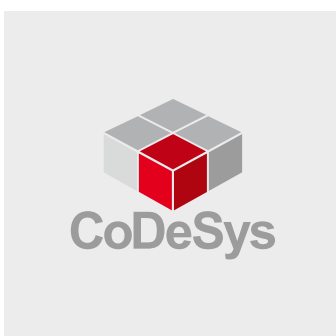
Standard operating systems such as Windows 7 cover all applications. Our embedded operating systems are performance-optimized for defined applications, e.g. as embedded control system or embedded client.

Embedded operating systems are based on Windows Embedded Standard 7 or on an OSADL-compliant Embedded Linux with preemptive real-time patch.



Prime Cube solutions are always focussing your individual application. Your Customized Computer System will be prepared for running the software without any further engineering efforts. It contains required drivers, APIs, control functions or real-time Ethernet support.

An embedded operating system includes all requested functions, e.g. .NET framework, Java runtime etc.



CoDeSys V3 is an established standard soft-PLC which is widely distributed on the market. All systems are prepared for executing the hardware-independent IEC 61131-3 runtime. In combination with our embedded control platform you will receive a PC-based real-time control. With dual core CPU, virtualization and two operating systems it operates fully independent of the visualization application.

Examples of vertical solutions.



Operator station

- Stand-alone Panel PC with GMP front made of stainless steel, hygienic surface refinement
- Long-term available singleboard computer with Intel Atom CPU
- Fanless cooling
- Extended temperature range up to +50° C
- Display 38.1 cm (15")
- Touch screen
- 2x Ethernet, both real-time capable
- Windows Embedded Standard 7



Operator panel

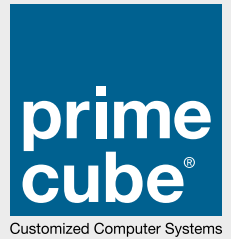
- Stand-alone panel, V2A housing, IP65 all-around
- Projective Capacitive Touch supporting multi-touch features
- Plain glass front for easy cleaning
- Capacitive control buttons
- Further control elements integrated
- Widescreen display
- LED backlight
- Different screen sizes



Embedded PC

- COM Express with Core2Duo CPU
- Full-custom base board
- Fanless CPU cooling
- Easily removable CompactFlash card
- 4x Firewire, 12x I/O
- 2x Ethernet, 4x USB, PCI Express
- Hardware dongle
- V2A housing
- Performance-optimized operating system Windows XP Embedded

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MSC Microcomputers Systems Components Tuttlingen GmbH

Rudolf-Diesel-Str. 17 ■ 78532 Tuttlingen ■ Germany ■ Tel. +49 7461 925-200 ■ sales@msc-tuttlingen.de