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COVER STORY

Syslogic celebrates 25th anniversary with new ruggedized PC line and more...

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Syslogic celebrates 25th anniversary with new ruggedized PC line and more...

Quality over the long term - Syslogic celebrates 25 years of operation and introduces a series of new products. One of the highlights is new rugged PC for applications where performance and reliability is the main issue and may more new products.



RPC Compact 71 with hard anodized aluminum housing

■ To mark its anniversary, Syslogic is launching a completely new development in the form of a ruggedized PC line that operates with high reliability during continuous operation even under the toughest conditions. Called the RPC (Rugged PC) Compact 71 and available in a variety of models, it features a durable anodized aluminum housing that is assigned to protection class IP67 and thus is both dustproof and watertight. Syslogic sees enormous market potential for this family of products, especially for uses in construction machinery or transportation-monitoring systems.

Inside the housing a rugged and maintenance free Syslogic embedded computer provides several innovations. The core of the RPC is the new scalable Intel Queensbay platform. The performance level last from 600MHz across 1.0 and 1.3 up to 1.6GHz. All four processors have the low power consumption in combination with the high performance in common. Besides, the RPC Compact71 comes with a real time clock (RTC) which is supplied by a maintenance free gold cap solution. The RPC Compact 71 gets along without any moving parts. The system is suitable for the 24/7 continuous operation and approved for the use within the extended temperature range of -40 up to +65 degrees Celsius on component level. In addition, the RPC is designed for various industries such as construction machines according to DIN EN 13309 or for Railway according

to DIN EN 50155. Furthermore the RPC Compact 71 comes with ten standard M12 interface connector as well as a regular SD interface and a two wire LVDS Interface. (FPD-Link)

The RPC Compact 71 is used all around application where harsh environmental conditions dominate and conventional industrial computer capitulate. According to this, the RPC is suited for usage in outside application - neither humidity nor extreme variations in temperature can harm this rugged system. It is frequently use for construction machines. Raphael Binder, Product Manager at Syslogic points out: "With its IP67 protection, the RPC Compact 71 is qualified for the use in dusty environment. Due to its extremely rugged housing the RPC permanently withstands even highest stresses and strains."

Besides the standard products, Syslogic fulfills also individual customer demands. As an example; it is possible to equip the ten standard M12 connections individually with different interfaces - even for small quantities. With this, Syslogic underlines its expertise as a system manufacturer for small and mid-sized quantities. The European company, which develops and manufactures all of their products within Europe, is well established within the SMB market due to the high degree of individualization for a comparatively small quantity which the company offers.

Technical data Rugged PC Compact 71

Processor	Intel Atom E680T, 1.6GHz Intel Atom E660T, 1.3GHz Intel Atom E640T, 1.0GHz Intel Atom E620T, 0.6GHz
RAM	1GB DDR2 SDRAM 2GB DDR2 SDRAM (optional)
Interface	USB 2.0 Ethernet 10/100/1000Mbit R232 RS485 CAN 2.0b (ESD protected, isolated) Two wire-LVDS (FPD Link)
Operating system	Linux Debian 6.0 Windows Embedded Standard 2009 Windows Embedded 7 Windows CE 6.0 Windows Compact 7
Size (l x h x w)	252 mm x 50 mm x 150 mm



Syslogic manufactures its products exclusively in Europe

Syslogic celebrates 25 years of operation

For the past 25 years, Syslogic has stood for robust industrial computers and display systems with a long service life. With these special products, which are specifically optimized to meet industrial requirements, this Swiss company has firmly established itself in the European market.

Originally founded exclusively for the marketing and sales of standard products from F.J. Furrer - W.M. Gloor AG (Furrer + Gloor), which specialized in industrial controls, Syslogic quickly developed into a professional partner for industrial informatic systems. In 1992, as an extension to Syslogic Datentechnik AG with its headquarters in Dietikon, Switzerland, the German subsidiary Syslogic GmbH was founded and from then on took over responsibility for the European market. Eventually in 1997, Syslogic acquired all the business operations of Furrer + Gloor and continued to carry out all that company's activities under its own name. Following the move from Dietikon to Baden, headquarters are today located in Baden-Dättwil. Meanwhile, the Syslogic Group – which besides Syslogic Datentechnik AG also includes Systronics AG and Logitronic AG – generates most of its revenue in Germany, Austria and Switzerland. While Syslogic made its mark as a supplier of industrial computers, embedded systems and touch panels, Systronics has specialized in the marketing and sales of industrial memory products based on flash technology along with peripherals. Logitronic is the manufacturing, purchasing and logistics arm of the Syslogic Group. All three Syslogic Group companies continually strive to provide the highest quality over the long term. This is apparent in Syslogic industrial computers and embedded systems just as much as in product

support and professional technical advice provided to customers throughout the life of a project.

Companies that use industrial computers in their systems must be sure that these will function reliably for years of continual operation, even under harsh conditions. In order to meet these requirements optimally, Syslogic develops and manufactures its products exclusively in Europe. As one of the few European companies in the field, Syslogic has its own complete development platform. This eliminates any fluctuations in quality due to changes in suppliers. Thanks to their modern production line, this ISO 9001-2008 certified company is also able to offer its products at competitive prices.

Christian Binder, CEO of the Syslogic Group, explains: "Syslogic offers everything from one source, starting with its own product development and production through sales and support during the implementation phase. In this way, we can guarantee our customers the trouble-free operation of our systems over many years."

Syslogic computers put to work on the high seas

To see why Syslogic products and services are always the first choice when conditions are especially tough, consider a current project far from the German coastline. In the middle of the raging North Sea, as part of a research project, the first offshore wind turbines were erected and together they produce more than 5 MW of electricity. ABB is supplying a variety of components for the project, including the true heart of the wind turbines, the frequency converters that transform the generated power into the desired frequency and voltage. For

system monitoring and remote control of these converters, ABB turned to the industrial computers from Syslogic's Compact ML product line. In this regard, Roger Erne, Engineering Project Manager at ABB, states, "A fundamental criterion for offshore wind turbines is low maintenance. Just like our components, the Syslogic computers are consistently designed to meet this requirement. That's why the Compact ML computers are ideal for providing access to our converters."

The concept behind the Compact ML family is based on a design that is fully enclosed, requires no fans and has no cables whatsoever. In this way, Syslogic guarantees that the computers run problem-free over long periods of time, even under the roughest possible weather conditions that predominate in the North Sea including extreme temperature fluctuations and high humidity. Designed to handle challenging remote functions, the Compact ML computer for this project was additionally equipped with a particularly powerful memory module that provides 32 Gbytes of storage. In this way, the engineers at ABB have the ability at any time to perform diagnostics on the converter using the remote access tool or to perform bug fixes.

New products just in time for its 25th anniversary

In order to further solidify its market position, Syslogic is preparing new products just in time for its 25th anniversary. Besides the already mentioned rugged PC RPC Compact 71, Syslogic introduces the Compact MS, which with its considerably reduced architecture stands out due to its compact form factor, minimal



Christian Binder, CEO Syslogic: "...covering the requirements of the highly specialized niche market of industrial computers and display systems..."



The Compact MS compute node is well suited as a protocol converter for monitoring and control systems.



Compact SL features a wide range of interfaces including USB, Ethernet and EtherCAT

power consumption and ruggedness. Thus, this compute node is well suited as a protocol converter for monitoring and control systems.

For complex applications that require higher compute power, Syslogic is presenting the Compact SL, which features a wide range of interfaces including USB, Ethernet and EtherCAT and thus enables flexible connections. Unique in the market is the intelligent power management used not only in the Compact

SL but also in other Syslogic computers. An additional microcontroller monitors system behavior when the computer is being activated or deactivated and, when an entire system, such as a plant, is turned off, it ensures safe shutdown of the industrial computer. With this feature, Syslogic guarantees the highest level of data security because even during the shutdown phase no information is lost.

Additional opportunities are in the area of industrial touch screen displays. With an series of infrared touch panels, Syslogic is reacting to the latest requirements in industrial applications. The Swiss company's infrared panels have no mechanical wear whatsoever, require absolutely no maintenance and are well suited for continuous 24/7 operation. Christian Binder summarizes, "We're convinced that with our tested and proven products as well as these newly launched innovations, we are covering the requirements of the highly specialized niche market of industrial computers and display systems and will be able to further expand our market position." ■

Product News

■ MACCON: motor controller for 12 to 600V operation and up to 24kW continuous power

MACCON presents its new generation of SWM7 advanced motor controllers. SWM7 servo controllers offer the highest possible performance, high power and high reliability. SWM7 modules are mounted and cooled via a base plate and are completely sealed to ensure both good physical protection and EMC. Connections are made via military-style Sub-D or screw connectors. Depending on the application environment versions for commercial (-CT) and extended (-ET) temperature ranges are available. The SWM7 (Sine-Wave commutated servo Module) motor controller family incorporate all the benefits of modern digital and power electronics technology. Versions are available for a wide range of supply voltages (12-60V, 12-350V and 24-650V). The family is able to drive DC-brush motors as well as 2- or 3-phase brushless DC and AC-induction motors.

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