

March 27, 2014

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New Sercos-capable products at Hannover Fair 2014

Sercos International, supplier of the Sercos® automation bus, will present new Sercos-capable products as well as a demo engraving machine from Schneider Electric at its booth at Hannover Fair from April 7 to April 11 in **hall 9, booth F80**.

Bosch Rexroth will introduce its new SERCANS Sercos master module with the slogan "one cable instead of three", as this is one of the first products for the common Sercos III and EtherNet/IP infrastructure. Automation is therefore becoming extremely easy as Sercos, EtherNet/IP, TCP/IP and safety-related communication can take place in parallel on one Ethernet cable. Engineers now have the possibility to combine devices from different manufacturers that support Sercos, EtherNet/IP or TCP/IP. This PC plug-in card simplifies the automation of individual machine modules as well as of entire machines.

The new Modicon LMC078 is a logic-motion controller for up to 16 servo axes and complements the motion control performance available in Schneider Electric's MachineStruxure PLC portfolio. The Modicon LMC078 controls complete machines without optional add-ons. Visitors can see it live because the controller is part of an engraving machine demo which shows how NC-applications can be implemented using a standard motion controller and the Sercos automation bus.

Automata will present a new stepper motor controller, the SMC3, which is ideal for cost-effective implementation of positioning functions. Using the positioning mode of the SMC3, such functions can now be quickly and easily integrated in Sercos networks without high programming effort. In positioning mode, the controller (PLC/CNC) just has to set a target position that is then approached autonomously by the SMC3 via programmable velocity and acceleration values.

Metronix offers a new range of servo motor drives, 'blueServo', that combines a universal real-time Ethernet capability with safe torque off functionality, supporting a large number of encoder interfaces. The use of real-time Ethernet communication protocols is a major trend in the industry, and to meet this demand Metronix has embedded a universal Ethernet capability into the drive, allowing it to be used in automation systems such as Sercos III.

Servotronix has announced the LVD Sercos III, a compact, high-power, intelligent servo drive for low voltage servo motion applications. The drive is ideal for driving small brushless stepper or brushed DC motors at 15-48 VDC bus voltage. In the case of stepper motors, the control is done via a closed loop commutation with no step loss.

Additional information regarding new products, technologies and innovations are available at the Sercos booth in **hall 9, booth no. F80**, via our [eNewsletter](#) or [website](#).

Sercos International e. V.
Kueblerstrasse 1
73079 Suessen, Germany
www.sercos.org

Contact
Peter Lutz
Phone: +49-7162-94 68-65
Fax: +49-7162-94 68-66
p.lutz@sercos.de

About Sercos International

Sercos International is an association of users and manufacturers that is in charge of technical development, standardization, certification and marketing for the Sercos automation bus. Conformance tests guarantee that Sercos implementations are standard-compliant ensuring that devices from different manufacturers can be combined. Based in Germany, the organization presently has more than 90 member companies located around the world and has national liaison offices in North America and Asia.

About Sercos

The SErial Realtime COmmunication System, or Sercos, is one of the world's leading digital interfaces for communication between controls, drives and decentralized peripheral devices. Sercos has been used in machine engineering for approximately 25 years and is implemented in over 4 million real-time nodes. With its open, manufacturer-independent Ethernet-based architecture, Sercos III is a universal bus for all automation solutions.

Sercos International e. V.
Kueblerstrasse 1
73079 Suessen, Germany
www.sercos.org

Contact
Peter Lutz
Phone: +49-7162-94 68-65
Fax: +49-7162-94 68-66
p.lutz@sercos.de

April 4, 2014

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Sercos launches new website

Sercos International, supplier of the Sercos® automation bus, has launched its newly redesigned website at www.sercos.org

In addition to a fresh graphics approach, the new website offers a greater depth of information on the Sercos automation bus.

The Technology section was expanded to offer more detailed information related to the automation bus, its functioning, and its design principles. The advantages of real-time Ethernet are also presented, as well as implementation and certification of the automation bus. There is extensive information on older Sercos generations such as I and II, the migration to Sercos III and the Sercos roadmap.

Detailed information on certification, the certification process, vendor codes and certified products can be found under the Certification menu.

A new product filter allows a fast and easy product search by vendor, product category, master, slave, safety, certification or Sercos generation, to help users find the right solution for any application.

Application reports describe the challenges companies were confronted with prior to using Sercos-capable products and describe how the solutions were implemented and the benefits they brought to the companies.

The Organization section was redesigned to provide more information on Sercos membership and its benefits. The Download section provides an extensive list of tools, forms, brochures and webinar recordings that are available for free download.

Additional information is available via our [eNewsletter](#) or [website](#).

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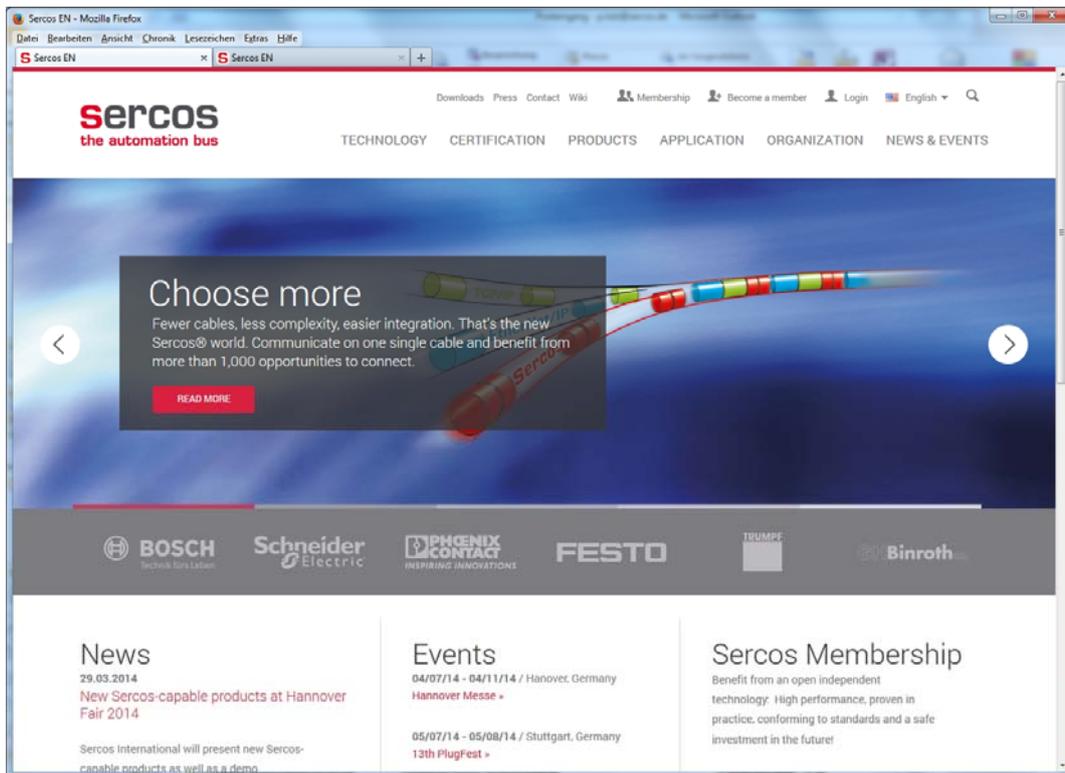
Sercos International e. V.
Kueblerstrasse 1
73079 Suessen, Germany
www.sercos.org

Contact
Peter Lutz
Phone: +49-7162-94 68-65
Fax: +49-7162-94 68-66
p.lutz@sercos.de

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Sercos International e. V.
Kueblerstrasse 1
73079 Suessen, Germany
www.sercos.org

Contact
Peter Lutz
Phone: +49-7162-94 68-65
Fax: +49-7162-94 68-66
p.lutz@sercos.de

Contact: Christoph Melzer
chmelzer@automata.de
Tel.: +49 (0)8233 7916 0
Fax: +49 (0)8233 7916 99

CANNON-Automata

Automata GmbH & Co. KG
Gewerbering 5
D-86510 Ried
www.cannon-automata.com



PRESS RELEASE

CANNON-Automata presents the Stepper Motor Controller SMC3 with Real-time Ethernet Interface

Ried, March 27, 2014: Stepper motors are ideal for cost-effective implementation of positioning axis. With the SMC3 stepper motor control, such functions can now be quickly and easily integrated in Sercos® or EtherCAT real-time Ethernet networks. Thanks to the SMC3 positioning mode, the necessary programming effort is very low.

The stepper motor control supports different operating modes and is thus suitable for most different applications. In positioning mode the controller (PLC/CNC) just has to set a target position. This position is then approached with programmable velocity and acceleration values autonomously by the SMC3. In addition cyclic velocity and position set values are supported. The user can choose between different configurable autonomous homing modes. All operation modes can be used both with a connected incremental encoder (closed loop) and without (open loop).

The onboard I/Os (4 digital outputs, 4 digital inputs and an incremental encoder interface) allow the realization of a complete positioning axis with enable and status signals as well as inputs for limit and homing switches. Alternatively, the digital I/Os can be used as position switches, cam switches or as touch probe inputs. The I/O function required by the application can be freely assigned and configured by the user.

The stepper motor interface is designed for 2-phase motors with up to 256 micro steps at max. 6A current per phase and 48VDC motor supply.

Both available device variants with Sercos or EtherCAT interface, support the protocol-specific drive profiles (FSP-Drive or DS-402). In this way, the SMC3 stepper motor control is ideal as an inexpensive and compact alternative to servo drives. Thanks to the high degree of standardization of these profiles, for cost optimization of already existing applications expensive servo drives can be replaced easily by the SMC3.



Pic. 1: SMC3
(HQ JPG-File in attachment)



Pic. 2: SMC3-Detail
(HQ JPG-File in attachment)



Pic. 3: SMC3 mit Stepper Motor
(HQ JPG-File in attachment)

For more information visit our product website ...

http://www.cannon-automata.com/index.php?Stepper_Motor_Controller_SMC3

Attachment

smc3_1800x1400_300dpi.jpg	Picture 1, 1800x1400 Pixel, 300 DPI
smc3_500x400_300dpi.jpg	Picture 1, 500x400 Pixel, 300 DPI
smc3_detail_1800x1400_300dpi.jpg	Picture 2, 1800x1400 Pixel, 300 DPI
smc3_detail_500x400_300dpi.jpg	Picture 2, 500x400 Pixel, 300 DPI
smc3_stepper_2500x1600_300dpi.jpg	Picture 3, 2500x1600 Pixel, 300 DPI
smc3_stepper_500x320_300dpi.jpg	Picture 3, 500x320 Pixel, 300 DPI

About CANNON-Automata

Automata is a member of the CANNON-Group. We are a global manufacturer of automation equipment with development and production facilities in Germany and Italy as well as service offices in China and Brazil. Our portfolio includes controls, Industrial PCs, operator panels and hard- and software components for Ethernet based communication in industrial environment. We supply medium sizes machine building companies with our customised automation systems and count well-known manufactures of controllers, I/O-Systems, drives and other automation devices as our customers. As a market leader we offer basic technologies for Ethernet-based real time communication. We support our OEM customers in their complete product cycle including the concept, the implementation and the manufacturing of communication modules or complete devices.

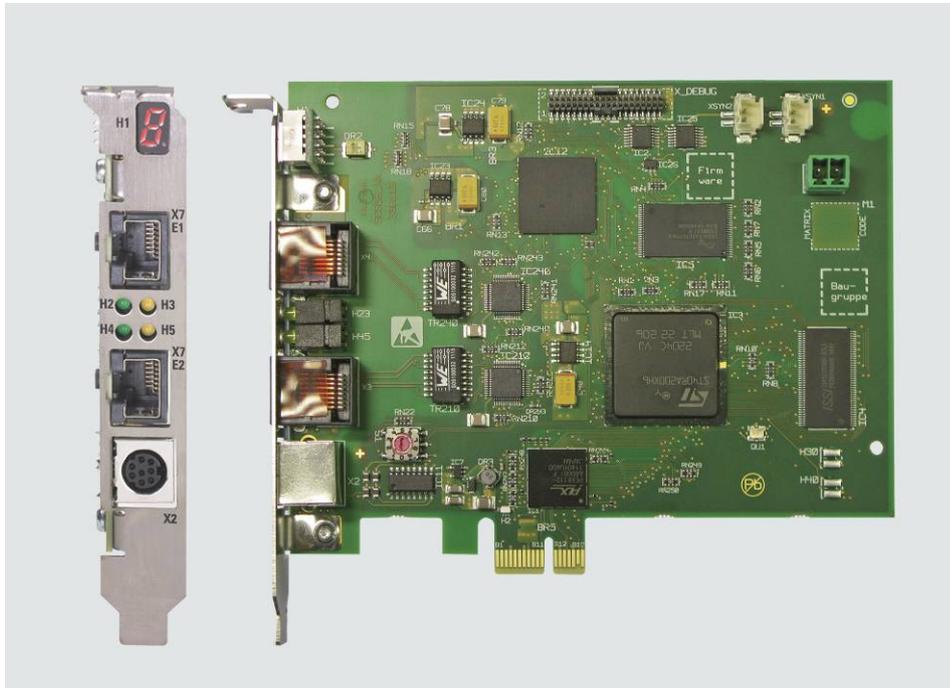
Our proven standard products combined with our strong customer orientation and our know-how in years of developing customer specific solutions gives us the possibility to react quickly to market needs. Thus we achieve maximum flexibility and highest efficiency for our customers.

Press Release

One cable instead of three: Sercos-Master-Module SERCANS simplifies automation

Parallel communication of Sercos, EtherNet/IP, TCP/IP and safety

2014-04-07



With the new Sercos-Master-Module SERCANS from Rexroth, an Ethernet cable is enough for the entire real-time, non-real-time and safety communication.

With the new Sercos-Master-Module SERCANS from Rexroth, an Ethernet cable is enough for the entire real-time, non-real-time and safety communication. Engineers now have the possibility to combine any devices of different manufacturers with one another that support Sercos, EtherNet/IP or TCP/IP. This PC plug-in card simplifies the automation of individual machine modules as well as of entire machines.

More and more often, real-time coordinated movements increase the productivity of machines and systems. At the same time, the processes need the evaluation of numerous data from the peripherals. The integration of scale transmitters, camera systems and a large number of other sensors has required an additional communication cable so far. If safety control is still necessary then, machine manufacturers often have to install and commission a third bus line. With the latest firmware version, SERCANS reduces this effort to one single Ethernet cable for the entire communication.

Contact for Journalists:

Bosch Rexroth AG

Nicole von Killisch-Horn

97816 Lohr am Main

Tel.: +49 9352 18-6474

Fax: +49 711 811 517-1681

nicole.vonkillisch-horn@boschrexroth.de

Press Release

The PC plug-in card is prepared for the dual master operation. This allows the mixed and direct operation of Ethernet/IP-, TCP/IP- and Sercos devices without additional hardware. The Sercos communication provides sufficient bandwidth for the parallel information exchange of real-time and non-real-time data. Every SERCANS master module with PCI-/PCI Express interface connects up to 128 Sercos participants with one another. Per PC, the combination of up to four Sercos masters is possible. This increases the number of participants up to 512 with Sercos interface.

2014-04-07

The direct cross-communication between the peripheral devices increases productivity and shortens cycle times, because it provides a very fast axis coupling and I/O communication. A new wizard simplifies the engineering of the cross-communication. The structured memory interface clearly manages cycle, system and diagnose data; configuration data for HMI and motion logic as well as standard Ethernet data. Even before a Sercos III communication has been initiated by the master, the network participants can already exchange data via TCP/IP, EtherNet/IP and the S/IP protocol specified by Sercos. In addition, Sercos supports the hot plugging of participants.

In addition, the Ethernet cable transfers safety signals via CIP Safety on Sercos. The protocol was defined by Sercos in cooperation with the ODVA and is certified according to IEC 61508 to SIL3. An additional wiring for a safety bus is eliminated, because these signals are transferred along with the real-time data of the Sercos network. For example, the safety control SafeLogic compact from Rexroth takes over the monitoring of more than 400 drives with their certified safety functions in the application of SERCANS via the Ethernet cable.

SERCANS simplifies the realization of mixed infrastructures in machine tools as well as in food and pharmaceutical production, the packaging industry or assembly and handling technology.

Contact for Journalists:
Bosch Rexroth AG
Nicole von Killisch-Horn
97816 Lohr am Main
Tel.: +49 9352 18-6474
Fax: +49 711 811 517-1681
nicole.vonkillisch-horn@boschrexroth.de

Press Release

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, Factory Automation, and Renewable Energies to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 36,700 associates generated sales revenue of approximately 5.7 billion euros in 2013.

2014-04-07

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. According to preliminary figures, its roughly 281,000 associates generated sales of 46.4 billion euros in 2013 (Note: due to a change in the legal rules governing consolidation, the 2013 figures can only be compared to a limited extent with the 2012 figures). Its operations are divided into four business sectors: Automotive Technology, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its more than 360 subsidiaries and regional companies in some 50 countries. If its sales and service partners are included, then Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2013, Bosch applied for some 5,000 patents worldwide. The Bosch Group's products and services are designed to fascinate, and to improve the quality of life by providing solutions which are both innovative and beneficial. In this way, the company offers technology worldwide that is "Invented for life."

Additional information is available online at www.bosch.com, www.bosch-press.com and <http://twitter.com/BoschPresse>

Contact for Journalists:
Bosch Rexroth AG
Nicole von Killisch-Horn
97816 Lohr am Main
Tel.: +49 9352 18-6474
Fax: +49 711 811 517-1681
nicole.vonkillisch-horn@boschrexroth.de

Servo drive range combines universal real-time Ethernet capability with superlative economy

** advanced capability (real-time Ethernet, STO, digital encoder support..) at ~25% cost reduction!*

** drives are also adaptable for custom applications and private label business*

Braunschweig, Germany, November 26, 2013 --- At SPS/IPC/DRIVES, Metronix announces a new range of servo motor drives that provide automation builders with an outstanding new combination of capability and economy. Called blueServo, the packaged drives combine a universal real-time Ethernet capability with safe torque off functional safety and comprehensive encoder interfacing capability - including the single-cable HIPERFACE DSL scheme. All of these features and more have been integrated thanks to a brand new hardware platform that has been designed-from-scratch to lower costs by around 25%.

"Downwards price pressure is here to stay and with this brand new drive family we began the design project with a goal of reducing hardware costs by approximately 25% compared with current European drive ranges," says Frank Essmann of Metronix. "We looked at the problem from all angles and as a result the new drives have some interesting features that help lower costs. Metronix is also known for its customization and private label capability, and this too was part of the specification - allowing us to offer exciting possibilities to OEMs with this technology."

Metronix will launch the new blueServo range with an initial choice of six packaged, panel-mounting single-phase and three-phase drives offering continuous output power ratings from 0.5 to 6 kVA. The hardware feature set chosen for the new drives is a combination of the most-commonly required features by Metronix's broad customer base, along with some brand new capability.

The use of real-time Ethernet communications protocols is a major trend in the industry and to meet this demand Metronix has embedded a universal Ethernet capability into the drive. It allows the drive to be used in automation systems employing EtherCAT, PROFINET, Sercos III or Ethernet/IP protocols for example, in addition to the commonly-used CANopen network interface.

A broad encoder interfacing capability is another major element of the servo drive family. Metronix blueServo drives allow connection to resolvers, analog/digital incremental encoders, and single/multiturn absolute encoders such as HIPERFACE or EnDat. The drives also support the digital HIPERFACE DSL interface - which allows automation engineers to cut system building costs substantially by using only a single cable connection between drive and motor.

Enhanced machine safety is another important trend, and Metronix has included support for Safe Torque Off (STO) functional safety in the new drives. This is designed to meet Category 4/PLe according to EN 13849-1 - the maximum rating achievable single-axis safety level in this category.

Further features include an integral line filter and brake resistors - a typical characteristic of Metronix drives - allowing blueServo to offer a standalone and ready-to-use solution for many common automation applications. A powerful and easy to use Windows-based software tool for parameterizing and analyzing the new drives is additionally available.

A key element of the new drive design is its low cost. This has been achieved by several factors. These include a carefully selected feature set that satisfies a large proportion of applications, and the implementation of these features directly in the embedded system rather than by means of more versatile, but more expensive techniques such as expansion slots - as used on some of Metronix's existing drive families. Metronix also increased the flexibility of the drive - without increasing costs - by partitioning the electronics design across two boards to reduce printed circuit layers and allow single-sided component mounting, and assembly/manufacture using simple processes. The two-board design serves to support Metronix's large custom drive business. One common request for example is to integrate an OEM's application-specific drive control electronics with Metronix's power stage - this is easily accommodated with the carefully-partitioned blueServo design.

"With blueServo we have created a drive that is designed and built to the most demanding professional standards, yet is also extremely price competitive," adds Frank Essmann. "We believe

that machine and automation builders can rely on it to help make their future generations of equipment as price competitive as equipment sourced from any world region - including low-wage-cost economies."

Metronix will deliver engineering development samples of blueServo in Q1, 2014, and plans to start volume production of the new range towards the end of Q2, 2014.

Metronix has been producing motion control technology for industrial machines and automotive applications for over 30 years. Its product range includes smart servo drives with integrated positioning capability, plus motion controllers and accessories that provide cost-effective solutions for multi-axis motion control and automation, and decentralized machine control requirements. A key feature of Metronix's motion products is their rich networking and encoder interfacing capability, which ensures that drives can be integrated easily into virtually any industrial system or machine - even if an OEM has custom PLC or control hardware. This feature is highly valued by many OEMs as it allows them to create and continue developing innovative brands of machine offering unique features. Metronix complements this capability with what is probably the most sophisticated and capable custom drive engineering service on the market today. Motion control products designed by Metronix are marketed under its own brand, and in custom forms by a number of well known industrial OEMs.

The company additionally makes geophysical instruments and customer-specific digital controls for measurement and control applications. Metronix is part of the Apex Tool Group, headquartered in Sparks, Maryland, USA. The Apex Tool Group has more than 7,600 employees in over 30 countries. Metronix's design and manufacturing facility is located in Braunschweig, Germany.

ENDS

For more information please contact:

**Metronix, Kocherstrasse 3, D-38120 Braunschweig, Germany.
t.: +49 (0)531 8668-0; sales@metronix.de; www.metronix.de**

Editorial contact: Frank Essmann, +49 (0)531 8668-0, Frank.Essmann@apextoolgroup.com

#

Compact Servo Drives C1100/C1200



With the new Servo Drive C series, LinMot is bringing a new generation of products to market. The models, consisting of the C1100 series for simple applications, such as replacement of pneumatics, and the C1200 series for difficult tasks with synchronization of axes and NC controls, represent compact devices for mass application and high-end devices for more challenging tasks.

Both types of drives use the most important bus interfaces. The C1100 Drive and C1200 are actuated via Profinet and EtherCAT. The latter also has a modular bus system and can be used optimally with Sercos III, Ethernet IP, and Powerlink interfaces. With up to 99 programmable motion profiles and 255 storable commands, the LinMot drives cover a broad range of applications.

Both device series are available with the options -0S and -1S, meaning with or without the integrated STO safety function (Save Torque Off). The LinMot C-series already has "Plug and Play" interfaces that will support automatic motor recognition for uncomplicated, rapid commissioning

The C1100 series will be available after the 2nd quarter of 2014.
The Series C1200 is now available.

NTI AG
LinMot & MagSpring
Haerdlistrasse 15
CH-8957 Spreitenbach
Schweiz

Tel.: +41 (0)56 419 91 91
Fax: +41 (0)56 419 91 92

Web: www.linmot.com
Email: office@linmot.com

LinMot Inc.

204 E Morrissey Dr.
Elkhorn, WI 53121
USA

Tel.: +1 262-743-2555
Fax: +1 262-723-6688

Web: www.linmotusa.com
Email: usasales@linmot.com

Schneider Electric Automation GmbH
Schneiderplatz 1
97828 Marktheidenfeld
Germany

Phone: (+49) 93 91 606-3357 • Fax: (+49) 6182 81-4000
Jochen.weiland@schneider-electric.com
www.schneider-electric.com

Press contact:
Jochen Weiland,
Industry Business VP Communication

Logic Motion controller for up to 16 servo axes

More performance for 'entry level' motion control solutions

For years, Schneider Electric has included a logic motion controller in the MachineStruxure PLC portfolio for machines with fewer servo axes. The new Modicon LMC078 with its Sercos bus is now further improving the motion control performance available in this portfolio. Its CANopen interface keeps it fully compatible with the Modicon environment, however.

MachineStruxure by Schneider Electric includes automation products and systems, engineering strategies, and a comprehensive range of services for the development of machine building solutions. With 'The NEXT generation' innovation package, Schneider Electric is making sure that MachineStruxure will continue to offer optimal performance for many years to come. One of the main pillars of 'The NEXT generation' is the completely new family of Modicon controllers to modernize the PLC controllers offered in MachineStruxure's multi-controller platform.

Modicon LMC078 has a special place among the new controllers, as it combines motion control functionality for up to 16 servo axes on a single controller platform with a powerful PLC with 2 ns / inst. The Modicon LMC078 controls complete machines without optional add-ons, thus expanding the PLC portfolio of the MachineStruxure multi-controller platform by adding full-motion control functionality for machines with fewer axes. MachineStruxure

offers the well-known PacDrive portfolio for machines with larger numbers of axes with up to 99 servo motors and/or robotic elements.

The Modicon LMC078 is suitable for a wide range of processing machines as well as simpler packaging machinery. The IEC 61131-3-compliant programmable controller also uses standard G-code, which increases its attractiveness as a cost-effective NC controller for simple applications using up to three interpolated axes.

The Modicon LMC078 is also an alternative to the proven Modicon LMC058 logic motion controller when the cycle times of the CAN-based axis synchronization in the LMC058 are too long. The Modicon LMC078 synchronizes up to 16 servo axes, but because it uses Sercos as a motion bus, it can easily maintain a maximum cycle time of 1 ms for eight axes and of 2 ms for 16 axes.

The controller's servo drive technology originates from the familiar Modicon line in the form of the all-purpose Lexium 32 series servo drives, which are now also available with a Sercos interface. Together with the Lexium BSH and Lexium BMH motors, they create a solid foundation for drive solutions using proven technology.

Use of the modular Modicon TM5 technology improves the cycle time for I/O communication, and the high speeds of Sercos III also support the IP67 remote I/O modules of the TM7series. Because of its ability to operate a parallel CANopen network in addition to Sercos, the controller is also able to use Schneider Electric's extensive portfolio of peripherals with CANopen interfaces, similar to the current capability of the Modicon LMC058.

In addition to the Sercos and CANopen interface, the Modicon LMC078 also has an onboard Ethernet interface. The principle of "one slot - one interface card" allows the system to be further expanded with an Ethernet/IP or Profibus DP interface.

In addition to the fieldbus interfaces, the controllers also have a serial interface, an encoder input (for sin/cos or incremental encoders), and a USB interface. The 20 digital inputs and 8 digital outputs built into the front of the unit make it unnecessary to add separate terminals into the communication network through Sercos bus couplers when creating simple, cost-sensitive automation solutions. Four of the inputs are designed as touch probe inputs.

Easy handling is a key feature in operating the Modicon LMC078: a 512 MB SD card functions as a boot drive and program memory. External memory devices can be connected to the controller's USB interface for high data volumes requiring greater storage capacity. A built-in LED display on the front of the unit supplies information on operational status, and the similarly integrated four-line alphanumeric display shows the firmware version, IP address, and other basic information. In the event of malfunctions, a plaintext message is displayed with potential causes for a number of situations. The integrated message logger can also be read out. Three buttons below the display allow intuitive navigation through the menus.

Engineering with the Modicon LMC078 is based upon SoMachine, the tool-based engineering suite for all the controllers of the MachineStruxure multi-controller platform. Controller programs can be created in the common languages of the IEC 61131-3 standard. Programs can be easily ported between Modicon LMC058 and LMC078 with the help of a simple converter tool.



Caption:

The Modicon LMC078 logic motion controller is the new top-of-the-line model in the Modicon controller portfolio of MachineStruxure.

Press information



Schneider Electric

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in Utilities & Infrastructures, Industries & Machine Manufacturers, Non-residential Buildings, Data Centres & Networks and in Residential. Focused on making energy safe, reliable, efficient, productive and green, the Group's 150,000 plus employees achieved sales of 24 billion euros in 2013, through an active commitment to help individuals and organizations make the most of their energy.

www.schneider-electric.com

Schneider Electric Automation GmbH
Schneiderplatz 1
97828 Marktheidenfeld
Germany

Phone: (+49) 93 91 606-3357 • Fax: (+49) 6182 81-4000
Jochen.weiland@schneider-electric.com
www.schneider-electric.com

Press contact:
Jochen Weiland,
Industry Business VP Communication

New PacDrive features and capabilities in 'The NEXT generation':

Reaching new heights in scalability and openness

Schneider Electric has introduced a number of new features in its PacDrive system for even greater flexibility and efficiency in automation. In addition to improved scalability and openness, the optimization of the PacDrive automation system for machines with up to 99 servo axes and robotic solutions has focused on reducing time to market by adding engineering tools with even greater functionality.

MachineStruxure by Schneider Electric includes automation products and systems, engineering strategies, and a comprehensive range of services for the development of machine building solutions. With its 'The NEXT Generation' innovation package, Schneider Electric is making sure that MachineStruxure will continue to offer top-level performance for many years to come.

Better scalability for up to 16 servo axes

One of the pillars of MachineStruxure is its use of PacDrive as a scalable standard automation solution for automating machines having 2 to 99 servo axes, with or without robotic solutions, based upon a central controller architecture. As part of the efforts of 'The NEXT generation', a number of large and small innovations have been added to PacDrive as well.

To improve scalability, the controller family has been supplemented by up to four new controllers capable of synchronizing up to 16 servo axes. The PacDrive controller portfolio now begins with the LMC100C, a pure PLC controller. This controller is ideal for applications that need line controller functions with the same programming interface. Controller solutions customized to individual performance requirements are now available for applications involving up to four, six, eight, 12, or 16 servo axes (PacDrive LMC101C, LMC106C, LMC201C, LMC212C, and LMC216C). Higher performance and even more communication options continue to be available in the PacDrive LMC300C, LMC400C, and LMC600C models.

Another innovation in the controller details is that the list of usable protocols for Ethernet communication now already includes the new OPC UA standard!

Daisy-chain communication for up to 45 servo modules

The introduction of daisy-chain communication for the Lexium ILM62 servo motors with integrated servo drive and shared power supply has been a major step toward significantly greater flexibility. Although network structures can already be implemented in line and tree topologies by using distribution boxes and pluggable hybrid cables, a new motor plug adapter now also allows cable to be looped through in a serial connection from motor to motor, without the need for an intermediate distribution box. This means that up to 45 motors can be operated on a single connection module. Different topologies can also be combined, of course. The separation of the Sercos line within the daisy-chain linkage also increases flexibility when connecting other Sercos nodes close to the drive directly within the machine frame itself. In future, access to the Sercos bus on the Lexium ILM62 distribution boxes will also be possible through a special plug that allows additional Sercos nodes to be connected within the machine frame itself without extra effort.

PacDrive also now offers a number of technical improvements to increase freedom when creating alternative designs for drive solutions. For example, a new version of the LXM62 power supply with 10 A nominal current now provides a practical alternative to the existing power supply with 42 A nominal current (84 A peak current) in applications needing power for only a few drives or for small drives. The MH3 series supplements the range of motors available for PacDrive. MH3 motors can be used instead of SH motors in applications

requiring higher inertia. Both motor series have identical cables. As an added feature, SH motors are now also available in a special stainless steel version.

The standardized and simplified design of drive solutions using Lexium servo drives now makes it possible to use Lexium LXM52 and LXM62 drives for operating AC motors. Together with significantly improved support for linear motors, this reduces spare parts inventories, supports standardized Sercos communication, and enables standardized programming for complete drive solutions using different motor types!

An encoder adapter creates greater openness for the integration of third-party drives when using motors with 5V rather than 10V encoders.

A boost for modular machine building

The new ability to use software for activating and deactivating Modicon TM5/TM7 I/O groups or islands within a system configuration simplifies the implementation of modular machine designs where electronic, drive, and I/O assemblies have been moved from the central control cabinet into optional machine modules. By activating the I/O groups in the runtime system, the application can be dynamically and individually adapted to the modules that are actually installed in the machine.

Another benefit for networked or modular automation structures is the new option to define master and slave encoders for multiple controllers in an encoder "network" within the same software project.

Standardized look & feel and new functions for tools

Last but not least, there are a number of new advancements in the area of tools. The SoMachine Motion interface for PacDrive and the SoMachine interface for Modicon now have a new and improved look & feel that has been standardized across many functionalities. This greatly simplifies the learning process for both tools as well as the process of switching between them.

A user-friendly, clearly structured display in a home screen ("Central") simplifies navigation between the individual steps of the engineering process. New functionalities also contribute to even more power and ease-of-use in the tools. For example, the Application Logger

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optimizes work during the development and commissioning phase by recording how the machine program's individual Application Function Blocks are behaving.

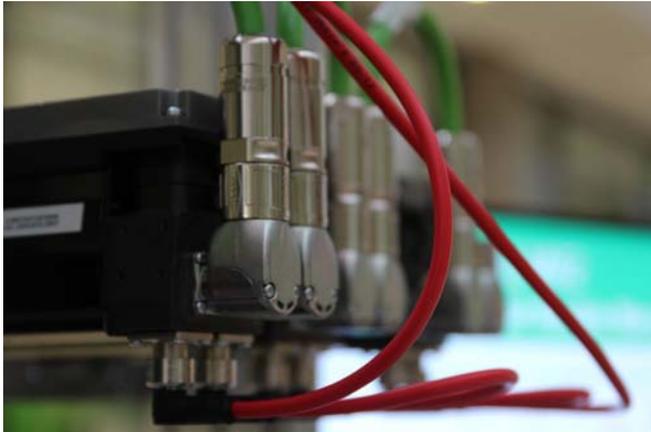
These and other details of the new solutions are an impressive demonstration of Schneider Electric's strategy for continued development of the current PacDrive generation, making it one of the most advanced automation solutions on the market!



Caption 1:

To improve scalability, the existing 'small' PacDrive LMC101C and LMC 201C controllers for up to eight servo axes have been expanded in the LMC1xxC and LMC2xxC series, consisting of a total of six models, to handle a performance range of 0 to 16 servo axes

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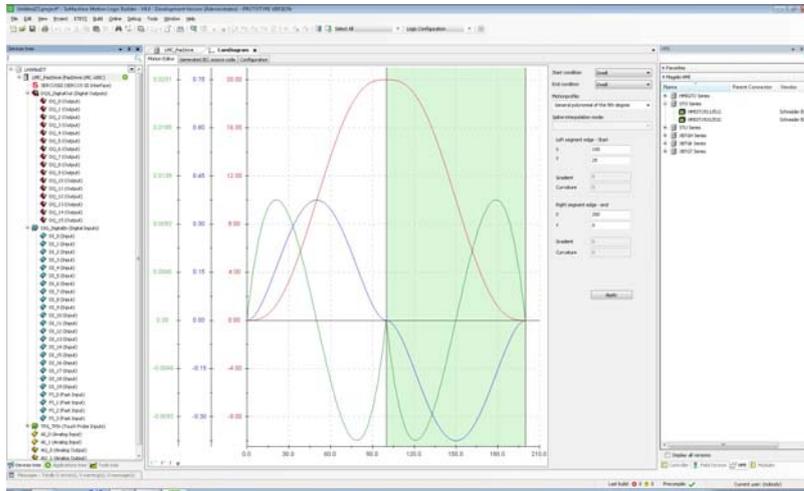
Caption 2:

A plug adapter enhances the existing range of network topologies for the Lexium ILM62 integrated servo drives by adding a serial daisy-chain configuration to the existing line and tree topologies



Caption 3:

New specialized plugs for the distribution boxes allow more flexible integration of Sercos interfaces in servo solution environments with integrated Lexium ILM62 servo drives



Caption 4:

SoMachine Motion presents an updated user interface and new functions



Picture 5:

Stainless steel designs for various SH servo motors are ideally suited for industries such as food production and packaging

Press information



About Schneider Electric

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in Utilities & Infrastructures, Industries & Machine Manufacturers, Non-residential Buildings, Data Centres & Networks and in Residential. Focused on making energy safe, reliable, efficient, productive and green, the Group's 150,000 plus employees achieved sales of 24 billion euros in 2013, through an active commitment to help individuals and organizations make the most of their energy.

www.schneiderelectric.com

News Release

Contact:
Roni Kedar
Sales and Marketing Coordinator
Roni.kedar@servotronix.com

10 April 2014

For Immediate Release

LVD Sercos III: High Performance Low Voltage Servo Drive

Servotronix launches the latest version of its high performance and compact LVD low voltage servo drive, with Sercos III communication interface.

Servotronix introduces the LVD Sercos III, a compact, high-power and intelligent servo drive for low voltage 15-48 VDC bus servo motion applications. The drive is ideal for driving small low voltage brushless, stepper or brushed DC motors. In the case of stepper motors, the control is done via a closed loop commutation with no step loss. This sophisticated stepper control delivers a servo-like performance at the low cost of a stepper solution.

The LVD has been qualified by Bosch Rexroth to operate with the IndraMotion Control models, [MLC](#) motion logic control, [MLD](#) drive-integrated motion control, and [MTX](#) CNC platform.

The LVD fully supports Sercos III – one of the most open, effective and successful industrial Ethernet solutions – to provide high performance, fast multi-axis control at a competitive price.

The LVD is about the size of a smartphone, and weighs just 250 grams – making it one of the smallest drives available. Its compact size, however, is not an indication of the power versatility it offers. With 12 Arms peak current and a switching frequency of up to 100 KHz, the LVD is one of the most powerful low voltage drives in the industry.

The drive's high PWM switching frequency, combined with the field oriented control (DQ) and space-vector modulation, enables operation of low inductance motors while minimizing current ripple and eliminating acoustic noise. Separate logic and bus power supplies allow safe motor power-off while maintaining the drive state, and a fast restart.



For more information about the LVD: www.servotronix.com/LVD.html

Download the LVD Sercos III [Quick Start Guide](#) and [IDN Reference Manual](#).

News Release

About Servotronix: Servotronix Motion Control develops and manufactures standard and customized automation solutions with a focus on motion control. With over 25 years of experience, the company has developed four generations of high performance servo drive families and motion control solutions tailored to customer needs and designed to meet the form, fit, functionality, and cost specifications of a wide range of applications and industries. With a global customer base of leading machine builders and automation system suppliers, Servotronix guiding principles are providing its customers with high-quality products, cost effective solutions, and on-time deliveries.

For more information about Servotronix and its products, please visit our website: www.servotronix.com