

Siemens solutions for intralogistics

All press releases concerning topics of intralogistics are available at www.siemens.com/press/intralogistics

Press releases

Simatic Micro-Drive F-TM Servodrive adds protective extra-low voltage range to the drive portfolio

Simatic Micro-Drive F-TM Servodrive is the newest member of the Simatic Micro-Drive family. The servo drive system comprises a Simatic Micro-Drive F-TM Servodrive drive controller module, the Simatic ET 200SP and universal motors and plug-in cables. It adds to the Simatic Micro-Drive PDC (ProfiDriveControl) and completes the drive portfolio in the protective extra-low voltage range for EC motors from 24 to 48 volts. The drive controller module supports dynamic and accurate positioning in a small amount of space in the performance range up to 280 watts.

<https://sie.ag/33ZeZ2S>



Sinamics Startdrive V16 brings new hardware and new functions to the TIA Portal

Sinamics Startdrive commissioning software is the perfect tool for integrating drive hardware into the TIA Portal engineering framework. With the latest version Sinamics Startdrive V16, Siemens is expanding the hardware portfolio available on the automation platform. Following on from the integration of the Sinamics S120 multi-axis system, the single-axis version of this high-end servo drive system can now also be engineered in the TIA Portal. The drive control of the recently introduced Simatic Drive Controller is now also integrated in the commissioning tool. Drive-CliQ hubs, which increase the number of interfaces in the Sinamics S120 multi-axis group, as well as other add-on components, are now integrated in the TIA Portal, perfectly completing this hardware update.

<https://sie.ag/34S7tqL>

**New Mindsphere app from Siemens supports Predictive Services for Drive Systems**

With Predictive Services for Drive Systems, Siemens presents a standardized extension to the local service agreement at this year's SPS. This is based on the new Mindsphere Predictive Service Assistance app. It makes maintenance more efficient for Sinamics drive systems and/or Simotics motors in the low voltage range. With the new service portfolio including Mindsphere app, Siemens is focusing on the operative demands of machine users, who are looking for full transparency for spare parts and servicing. Thanks to digital support via the Mindsphere app, Siemens can offer customers optimized service cycles, increased service efficiency, easy and streamlined documentation, plus full transparency for historical service activities.

<https://sie.ag/2Chqh6p>



Web-based visualization system sets new standards for industrial operator control and monitoring

At the "SPS – Smart Production Solutions" 2019, Siemens will present a completely new overall system for industrial operator control and monitoring. The web-based visualization system consists initially the Simatic WinCC Unified visualization software as well as the new generation of HMI panels, Simatic HMI Unified Comfort Panels. The new system provides the user with a solution for HMI and SCADA applications, and in the future also for Industrial Edge, Cloud and Augmented Reality scenarios. The runtime of the newly developed visualization software Simatic WinCC Unified in the TIA (Totally Integrated Automation) Portal is based on native Web technologies such as HTML5, SVG and JavaScript. The high scalability of the newly platform enables end-to-end solutions, from machine-level applications all the way to the SCADA system.

<https://sie.ag/2nNRIRp>

**Versatile, seamless across the system, safety integrated: new servo drive system for protective extra-low voltage range**

Siemens is extending its drive portfolio in the safety extra-low voltage range for DC/EC motors with 24 to 48 V by introducing a new servo drive system known as the Simatic Micro-Drive. The new system offers scope for individual combination with UL-certified components and comprises the PDC (Profidrive Control) servo converter in conjunction with a flexible range of motors and connecting cables. Simple connection to Simatic controllers helps significantly reduce the engineering workload, while integration into Siemens automation technology over the TIA Portal makes for simple commissioning and servicing. Communication takes place over Profinet IRT using Profisafe und Profidrive profiles. The new Safety Integrated function SLT (Safely Limited Torque) limits torque by monitoring motor current in running operation.

<https://sie.ag/2wPq4i4>



New system for managing Industrie 4.0 communication networks

Siemens is launching Sinec NMS, a powerful, future-proof network management system (NMS). It enables users to master the growing demands placed upon industrial communication networks, such as the increasing degree of networking, larger quantities of data, and the complexity of network structures. Networks with between 50 and 12,500 participants can be centrally configured, managed and monitored round-the-clock with the software. This facilitates forward-looking planning and a quick response time to prevent possible failures and so increase productivity. The software can be used across all industries.

<https://sie.ag/2Q3vfeA>

**New version (3.0) of Safety Library improves storage and retrieval system performance**

Siemens has upgraded its TÜV-certified Safety Library developed specifically for use with storage and retrieval systems. The benefits of Safety Library V3.0 for users include faster commissioning and compatibility with a wider range of failsafe Simatic controllers (from S7-1516F). Boosting the speed of storage cycles are two functions: Vibx (Vibration Extinction) and the more advanced new function Advanced Position Control (APC). APC also requires no additional sensors or actuators, and ensures the permanent prevention of most vibrations. APC even kicks in under continuously changing vibration conditions, caused for instance by different loading conditions or variable disturbance factors such as wind. Supplementing this function are new additions to the Simotics S-1FG1 portfolio.

<https://sie.ag/2w0C1uH>



Artificial Intelligence for Simatic

Siemens is launching onto the market a new module for the Simatic S7-1500 controller and the ET 200MP I/O system, which has a chip with artificial intelligence (AI) capability: The S7-1500 TM NPU (neural processing unit) is equipped with the Intel Movidius Myriad X Vision processing unit, thus enabling the efficient processing of neural networks. The module gets its function from the provision of a trained neural system on an SD card and is equipped with the USB 3.1 interfaces and a Gigabit Ethernet port. On the basis of the neural network, data from a connected sensor system or from the CPU program can be processed.

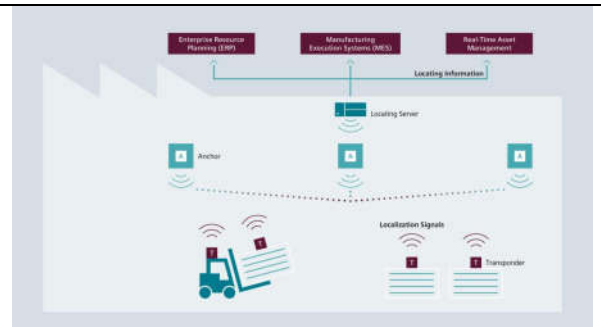
<https://sie.ag/2TWmsft>



Siemens acquires technology leader in Real-Time Locating System solutions

With effect from March 29, 2018, Siemens has taken over ownership of the company Agilion GmbH based in Chemnitz. Agilion is a leading supplier of industrial Real-Time Locating Systems (RTLS) focusing on applications in production, logistics and maintenance. The company is recognized as a pioneer in the field of RTLS in the Ultra Wide Band (UWB) frequency spectrum. This technology enables highly precise localization within a range of just a few centimeters, tracking of a large number of different assets, and exceptionally easy commissioning. The precise realtime localization of assets such as tools or vehicles will enable manufacturers to optimize their production and logistics processes and so improve their quality, productivity and flexibility.

<https://sie.ag/2IFvOah>



Background Information

Siemens Industrial Edge takes the benefits of the Cloud to field level

With Siemens Industrial Edge, Siemens offers a digitalization solution that adds machine-level data processing to automation devices, by taking the intelligence of Edge computing and thus, sophisticated analytics securely to manufacturing level. Siemens Industrial Edge offers users the opportunity to execute a wide range of descriptive, diagnostic, predictive and prescriptive analytics applications. Cloud connectivity is used in conjunction with Edge apps from Siemens, from third-party providers or from users themselves in an integrated hardware and software ecosystem for automation components.

<https://sie.ag/2KOWdlQ>



On the path to a new era: How 5G will change industry

A factory site in 2025: Goods, spare parts, and finished products are being transported between delivery bays, production facilities, and warehouses by a fleet of autonomous vehicles which is precisely coordinated with the manufacturing schedule. Countless devices are networked with each other in production and transfer data from the entire production line in a matter of milliseconds. Cameras on a conveyor belt can, for example, identify a foreign body and bring a robot to rest instantly. The field engineer is able to carry out remote maintenance and service tasks easily and effectively using augmented reality without having to leave the site.

<https://sie.ag/2TIWbIX>

What is Industrial 5G?

Industrie 4.0 with intelligent factories and the Industrial Internet of Things (IIoT) – this is the future of industrial manufacturing. Making production facilities and intralogistics more flexible, autonomous, and efficient requires appropriate communications framework conditions and comprehensive connectivity. The new 5G communication standard is opening up new prospects in this area. One of the benefits of 5G is the significantly greater bandwidth which allows much more data to be sent simultaneously than previously.

<https://sie.ag/2W2S3ic>

1G	2G	3G	4G	5G
<p>Released: 1979</p> <p>Standards: GSM, AMPS & TACS</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 150 W • 12.5 kbit/s <p>Standards: GSM & CDMA</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 120 W • 128 kbit/s • 2.5 kbit/s • 128 kbit/s • 2.5 kbit/s <p>Standards: UTRA & USTD</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 120 W • 3.1 Mbps • 384 kbit/s • 3.1 Mbps <p>Standards: LTE</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 100 Mbps • 100 Mbps • 100 Mbps <p>Standards: 5G</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 10 Gbps • 10 Gbps • 10 Gbps 	<p>Released: 1979</p> <p>Standards: GSM, AMPS & TACS</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 150 W • 12.5 kbit/s <p>Standards: GSM & CDMA</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 120 W • 128 kbit/s • 2.5 kbit/s • 128 kbit/s • 2.5 kbit/s <p>Standards: UTRA & USTD</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 120 W • 3.1 Mbps • 384 kbit/s • 3.1 Mbps <p>Standards: LTE</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 100 Mbps • 100 Mbps • 100 Mbps <p>Standards: 5G</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 10 Gbps • 10 Gbps • 10 Gbps 	<p>Released: 2002</p> <p>Standards: UTRA & USTD</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 120 W • 3.1 Mbps • 384 kbit/s • 3.1 Mbps <p>Standards: LTE</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 100 Mbps • 100 Mbps • 100 Mbps <p>Standards: 5G</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 10 Gbps • 10 Gbps • 10 Gbps 	<p>Released: 2009</p> <p>Standards: LTE</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 100 Mbps • 100 Mbps • 100 Mbps <p>Standards: 5G</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 10 Gbps • 10 Gbps • 10 Gbps 	<p>Released: 2019</p> <p>Standards: 5G</p> <p>Leistungsleistung:</p> <ul style="list-style-type: none"> • 100 W • 10 Gbps • 10 Gbps • 10 Gbps
<p>100 kbit/s</p> <p>Erwartung für Industrie 1.0</p> <p>Autonomie</p>	<p>100 kbit/s</p> <p>Erwartung für Industrie 2.0</p> <p>Autonomie</p>	<p>100 kbit/s</p> <p>Erwartung für Industrie 3.0</p> <p>Autonomie</p>	<p>100 kbit/s</p> <p>Erwartung für Industrie 4.0</p> <p>Autonomie</p>	<p>100 kbit/s</p> <p>Erwartung für Industrie 5.0</p> <p>Autonomie</p>