

Industry Sector Industry Automation Division

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Perfect interaction between micro-controller, HMI panels, and engineering

The new Simatic S7-1200 Micro-Controller from the Siemens Industry Automation division is characterized by its versatile and flexible setup concept, along with high performance and an extremely compact design. The new Simatic Step 7 Basic engineering system configures both the controller and the HMI (human-machine interface) Basic Panels. This ensures especially simple and rapid programming, networking, and commissioning. Together, the new controller, the HMI Basic Panels, and the new software form an integrated solution for compact and sophisticated automation tasks in the Micro Automation performance class.

The Simatic S7-1200 Micro PLC (programmable logic controller) is a new modular controller for compact applications in the lower performance range. In developing the controller and the software, particular emphasis was given to seamless integration and the ideal coordination of controller, HMI, and software.

The design of the new Simatic S7-1200 Micro-Controller is scalable and flexible. This makes it possible to fulfill automation tasks with precision. The central module can be extended flexibly with input/output and communication modules. The "signal boards" are a new feature. They are simply attached to the front of the CPU module and provide either two DI (digital input)/DO (digital output) interfaces or one analog output. This allows a very compact design for applications with only a few signals. The new micro PLC can be expanded for serial communication with two communication modules, each with an RS232 or RS485 port.

The Simatic S7-1200 has an integrated Profinet interface for easy networking and communication between engineering system, controllers, and HMI; for example, for programming and CPU-to-CPU communication. The Simatic HMI Basic Panels for visualization are also connected via this

interface. The CSM 1277 expansion module, an unmanaged 4-port Ethernet/Profinet switch, is available for networking multiple controllers or HMI devices.

For demanding technological tasks, technology functions for counting, measuring, closed-loop control, and motion control are already integrated as standard. In addition, compared to the Simatic S7-200 predecessor model, the new micro-controller also has a faster processor and larger memory, which can be divided flexibly between program and application data.

The new Simatic Step 7 Basic engineering system provides integrated engineering for controllers and Simatic HMI Basic Panels. Simatic Step 7 Basic V10.5 with integrated WinCC Basic for visualization tasks supports the user with task-oriented and intuitive editors for a high degree of user-friendliness and efficiency in engineering.

The coordinated solution of controller and engineering system can be expanded through a range of HMI Basic Panels with a high IP65 degree of protection and with integrated Profinet interface. The panels include 4 to 15-inch pixel-graphic displays with touch screen and tactile function keys. All panels consistently offer the same functionality regarding reporting, recipe management, and trend curve functions.

The Simatic S7-1200 Micro-Controller is versatile and is suitable for both the efficient automation of smaller machines and conveyor systems as well as distributed closed-loop control components in larger systems.

Further information can be found on the Internet at: www.siemens.com/simatic

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