



ZM AUTOMAZIONE

HARDWARE & SOFTWARE FOR INDUSTRIAL AUTOMATION

NEW CONTROLLER SIMATIC S7 1200 G2

SIEMENS

The successor to the **SIMATIC S7 1200** family is now available

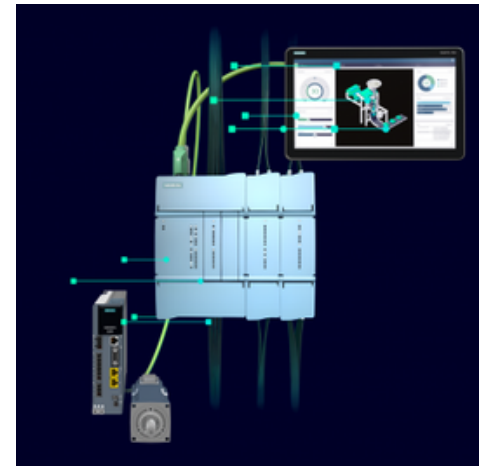
The **SIMATIC S7 1200 G2** controllers set new performance standards for versatile, high-precision automation applications.



KEY BENEFITS:

- Integrated motion control functionality
- Flexible and compact safety solutions
- Support for real-time PROFINET and isochronous
- real-time PROFINET communication
- Enhanced performance and seamless scalability
- Near Field Communication (NFC) functionality
- Reduced footprint on DIN rail

Specifically, the S7-1200 G2 controllers enable machine builders to control multiple coordinated axes and simple kinematics. Customers will benefit from enhanced performance capabilities thanks to improved processing power, dedicated communication resources, and increased memory. In addition, thanks to Near Field Communication (NFC) functionality, users will be able to access the device's diagnostic and operational data via an app directly from a smartphone. Text-based diagnostic information covering an entire programmable logic controller (PLC) station reduces machine downtime and allows users to quickly access data.



WHAT DOES SIEMENS SAY?

"The new SIMATIC S7-1200 G2 helps bridge the gap between the worlds of operational technology (OT) and information technology (IT) thanks to high-performance communication and efficient data processing. Connecting controllers to IT systems also provides access to advanced data analysis tools, including those in the cloud. The new generation of SIMATIC S7-1200 G2 controllers enables customers to address their key challenges—such as optimizing productivity, flexibility, and costs—while consistently benefiting from the standardized engineering approach of the TIA Portal."

Excerpt from the press release

CPU STANDARD

CPU 1212C

- Variants: DC/DC/DC, AC/DC/relay, DC/DC/relay
- Integrated program working memory: 150 kbyte
- Integrated data working memory: 500 kbyte
- Integrated load memory: 8 Mbyte
- Integrated digital inputs/outputs: 8/6
- Expansion via Signal Board: max. 1
- Expansion via Signal Modules: max. 6

CPU 1212FC

- DC/DC/DC and DC/DC/relay variants
- Memoria di lavoro per programma integrata 200 kbyte
- Integrated data working memory: 500 kbyte
- Integrated load memory: 8 Mbyte
- Integrated digital inputs/outputs: 8/6
- Expansion via Signal Board: max. 1
- Expansion via Signal Modules: max. 6

CPU 1214C

- Variants: DC/DC/DC, AC/DC/relay, DC/DC/relay
- Integrated program working memory: 250 kbyte
- Integrated data working memory: 750 kbyte
- Integrated load memory: 8 Mbyte
- Integrated digital inputs/outputs: 14/10
- Expansion via Signal Board: max. 2
- Expansion via Signal Modules: max. 10

CPU 1214FC

- DC/DC/DC and DC/DC/relay variants
- Integrated program working memory: 300 kbyte
- Integrated data working memory: 750 kbyte
- Integrated load memory: 8 Mbyte
- Integrated digital inputs/outputs: 14/10
- Expansion via Signal Board: max. 2
- Expansion via Signal Modules: max. 10

DIGITAL EXPANSIONS

Sono disponibili espansioni per ingressi e uscite digitali a completamento della periferia integrata delle CPU SIMATIC S7-1200 G2:

- Signal Modules as separate units compatible with all SIMATIC S7-1200 G2 CPUs
- Signal Boards as plug-in modules for use on the CPU in space-constrained applications, compatible with all SIMATIC S7-1200 G2 CPUs



ANALOGIC EXPANSIONS

Expansion modules for analog inputs and outputs are available to supplement the integrated I/O of SIMATIC S7-1200 G2 CPUs, featuring extremely short conversion times for connecting analog sensors and actuators without an additional amplifier:

- Signal Modules as separate units compatible with all SIMATIC S7-1200 G2 CPUs
- Signal Boards as plug-in modules for use on the CPU in space-constrained applications, compatible with all SIMATIC S7-1200 G2 CPUs



COMMUNICATIONS UNIT

Each SIMATIC S7-1200 G2 controller can be expanded with up to three different communication modules (CM) and, depending on the selected CPU type, with up to two communication boards (CB) for the 1214 G2 CPU, while only one communication board (CB) is supported for the 1212 G2 CPU.

In addition to the integrated Ethernet interface, this results in a wide variety of connection options, such as application-specific protocols like USS or Modbus.



CM 1241 RS232/422/485

The CM 1241 card supports three types of configuration: RS232, RS422, and RS485.

- Only one type of configuration can be used per CM.
- These communication types cannot be used simultaneously on the same CM.
- However, if desired, each CM can be configured with a different communication type.
- Modulo di espansione a destra della CPU



CB 1241 RS485

The CB 1241 RS485 card supports only the RS485 communication protocol and is a module that plugs directly into the CPU.

Our technical team is available to work with you to evaluate potential conversions and new applications.

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