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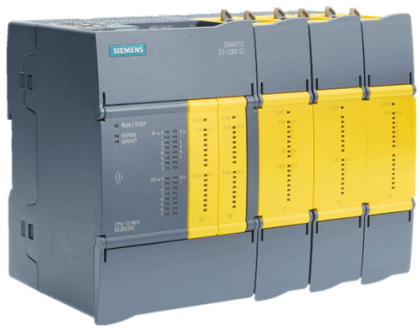
SIMATIC S7-1200 G2

Siemens EcoTech Profile

Smart choice for basic automation



Low carbon materials
Reduction in product carbon footprint (cradle to gate) achieved through optimization of mechanical and electronic components.

Substances of concern
The content of halogenated substances in the printed circuit boards (PCB) has been proactively reduced.

Energy efficiency
Reduction in power dissipation achieved with increased performance.

Upgradability
Functional upgrades can be achieved through the implementation of firmware to the device.

Minimum material use
Optimal material usage per computing power generated has been enhanced, supporting resource efficiency.

Maintenance possible / Updatability
The product is designed for maintenance-free operation and firmware updates are available to keep the product up to date.

Ease of disassembly / Circularity instructions
Recycler guide describes easy disassembly process with standard tools and material fractions for recycling.

Compliant with substance regulations
Protect people and environment by avoiding substances of concern.

EPD Type II or Type III available
The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle. Type II according to ISO 14021 including Life Cycle Impact Assessment (LCIA). Type III verified and certified according to ISO 14025.

Scan for Environmental Product Declarations (EPD) and further technical information.

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Range of application
This Siemens EcoTech Profile is valid for products in the range of S7-1200 G2 CPUs (incl. Failsafe), Signal Modules and Signal Boards.

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Further information on the product

Sustainable materials:

Low carbon materials

- The product carbon footprint (cradle to gate) is reduced to **12.4 kg (-10%)** for all variants of CPU 1212 and to **14.4 kg (-28%)** for all variants of CPU 1214.

Substances of concern

- Complete substitution of TBBPA as reactive component for PCBs of Signal Modules and Signal Boards compared to predecessor products.
- PCBs complying with IEC 61249-2-2.

Minimum material use

- Product performance increased by more than **100%** with a comparable weight (avg. increase **<15%**) for all variants of CPU 1212 and CPU 1214 compared to its predecessor.

Optimal use:

Energy efficiency

- The power dissipation has been reduced by **20%** for CPU 1212 and **30%** for CPU 1214 compared to predecessor products, while the product performance has been increased by more than **100%.**

Maintenance possible / Updatability

- Product features, such as no movable parts, passive cooling and no batteries, characterize the maintenance-free design.
- Firmware updates provided in SIOS to correct errors and implement functional enhancements.

Value recovery:

Upgradability

- Firmware that enables functional upgrades is provided in SIOS.

Ease of disassembly / Circularity instructions

- Recycler guides for S7-1200 G2 CPUs, Signal Modules and Signal Boards are available in SIOS.

Our production facilities

Our goal is clear: All Siemens production facilities and buildings worldwide are to achieve a net zero-carbon footprint by 2030. Today, all Siemens EcoTech products are manufactured in production facilities using 100% renewable electricity.

And the ambitions go much further. The management systems implemented in our production facilities reduce the environmental impacts of our sites. Furthermore, we ensure fair treatment and respect for our people. More information about the 360° view on Siemens' sustainable transformation: Learn more about our DEGREE framework

Scan for more information on the Siemens EcoTech framework

TÜV Rheinland has independently validated the assessing methodology behind this product sheet's data evaluation according to ISO 14020 and 14021 standards.

Our Robust Eco Design process

The Siemens Robust Eco Design (RED) approach provides the foundation for integrating Ecodesign systematically into our product development and allows us to derive Ecodesign specifications that are advantageous from an environment point of view while meeting our own sustainability goals as well as those of our customers and suppliers. The RED approach involves three phases:

Application perspective
Definition of relevant product families, identification, and prioritization of Ecodesign requirements from stakeholder expectations.

Solid foundation
LCA-based assessment of environmental impacts for representative products along the entire life cycle, communicated via EPD.

Dematerialization
Evaluation of quantitative environmental impacts of Ecodesign and of further requirements, derivation of improved design specifications wherever reasonable.

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