

SIMATIC S7-1500 CPU

Siemens EcoTech Profile

Take control of innovations



Low carbon material

Substantial reduction in product carbon footprint (cradle to gate) achieved through design optimizations.



Minimum material use

Reduced use of resources, e.g. the total product weight is significantly lower due to functional integration and elimination of the heat sink.



Packaging

The packaging boxes are 100% free of plastic and made of responsibly managed sources or recycled fibers.



Maintenance possible / Updatability

The product is maintenance-free and firmware updates are available in SIOS to keep the product up to date.



Upgradability

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



Energy efficiency

Substantially reduced power dissipation with increased performance.



Repairability

Reliable repair services and supply of spare parts available. The product design supports easy repairability.



Ease of disassembling / Circularity instructions

Recycler guide describes easy disassembly with standard tools and material fractions available from recycling.



Compliant with substance regulations

Protect people and environment by avoiding substances of concern.



EPD Type II available

According to ISO 14021 including Life Cycle Impact Assessment (LCIA). The Environmental Product Declaration (EPD) provides transparency on the environmental impact of the product throughout its life cycle (e.g. Product Carbon Footprint (PCF) data).



Scan for [Environmental Product Declarations \(EPD\)](#) and further technical information.



Range of application

This Siemens EcoTech Profile is valid for SIMATIC S7-1500 CPU1511, CPU1513, CPU1515 and CPU1516 excl. CPU 1516T / TF.

Further information on the product

Sustainable materials:



Low carbon material

- The product carbon footprint (cradle to gate) is reduced to **25.8 kgCO₂e** for all variants of CPU1515. A reduction of more than **-35%** compared to its predecessor.



Minimum material use

- Product weight is significantly reduced compared to all predecessor products e.g.:
 - CPU1511/13: reduction approx. **-20%**
 - CPU1515/16: reduction approx. **-45%**



Packaging

- FSC certified cardboard box made from responsibly managed sources, including **75-100%** recycled fibers.
- The packaging is **100%** free of plastic.

Optimal use:



Energy efficiency

- Processing performance is considerably increased (between **60-400%**) and power dissipation reduced (up to **-40%**) compared to the predecessor products.



Maintenance possible / Updatability

- Product features such as no moving parts, passive cooling and no batteries characterize the maintenance-free product design.
- Firmware updates are provided in SIOS to keep the device up to date.

Value recovery & circularity:



Repairability

- Professional repair services and spare parts supply available to ensure fast and reliable support.



Upgradability

- Firmware updates which enable functional upgrades are available in SIOS.



Ease of disassembling / Circularity instructions

- A recycler guide is 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](#)

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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