

## SIMATIC ET 200SP CPU

## Siemens EcoTech Profile

## Take control of range

**Low carbon materials**

Substantial reduction in product carbon footprint (cradle to gate) achieved through optimization of mechanical and electronic components.

**Secondary materials**

Increased use of secondary material compared to predecessor through the introduction of plastic made from bio-circular resources for main housing.

**Minimum material use**

Optimal material usage per computing power generated has been enhanced compared to its predecessor, supporting resource efficiency.

**Energy efficiency**

Reduction in power dissipation achieved with increased performance.

**Repairability**

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

**Packaging**

The packaging is 100% recycled and free of plastics.

**Maintenance possible / Updatibility**

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.

**Siemens  
EcoTech**

**Range of application**

This Siemens EcoTech Profile is valid for products in the range of ET 200SP CPUs (including F/T/TF variants).

## Further information on the product

### Sustainable materials:



#### Low carbon materials

- The PCF (cradle to gate) is reduced to **22.3 kgCO<sub>2</sub>e (-13%)** compared to all predecessor variants.



#### Secondary materials

- 50%** of material now synthesized from bio-circular feedstock meeting the definition of waste and residue.



#### Minimum material use

- Weight reduction of **-15%** due to the reduction of electrical and mechanical components, with a performance increase of **>700%** for all variants of CPU 1510SP and 1512SP.\*



#### Packaging

- Packaging is FSC certified cardboard.

### Optimal use:



#### Energy efficiency

- The power dissipation has been reduced by more than **-35%** for CPU 1510SP and CPU 1512SP compared to predecessor products, while the product performance has been increased by more than **700%.\***



#### 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:



#### Repairability

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



#### Ease of disassembly / Circularity instructions

- Recycler guides for ET 200SP CPUs are available in SIOS.
- Recycler guides provide recyclers with instructions on how to disassemble products safely.

\*Not applicable for all variants of CPU 1514SP, as no predecessor product available.

## 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.

