

Product Carbon Footprint Report

ASUS ExpertCenter D5 Mini Tower
D501MERES (Series: M501MER, D501MERC)

Report produced: Feb.,2025

Estimated carbon footprint

538 Kg CO₂e \pm **289** Kg CO₂e



Product Introduction & Assumptions for calculating product carbon footprint:

| Product Weight | Screen Size | Product Life |
|-------------------|---------------|------------------------------|
| 6 kg | N/A | 4 years |
| Assembly Location | Use Location | Use Energy Demand (Year TEC) |
| China | North America | 39.89 kWh/year |

WHY WE DO

ASUS is committed to continuously improving the environmental performance of the products you purchase. Through product carbon footprint reports (PCF), we show the environmental impact of product lifecycles from design to disposal.

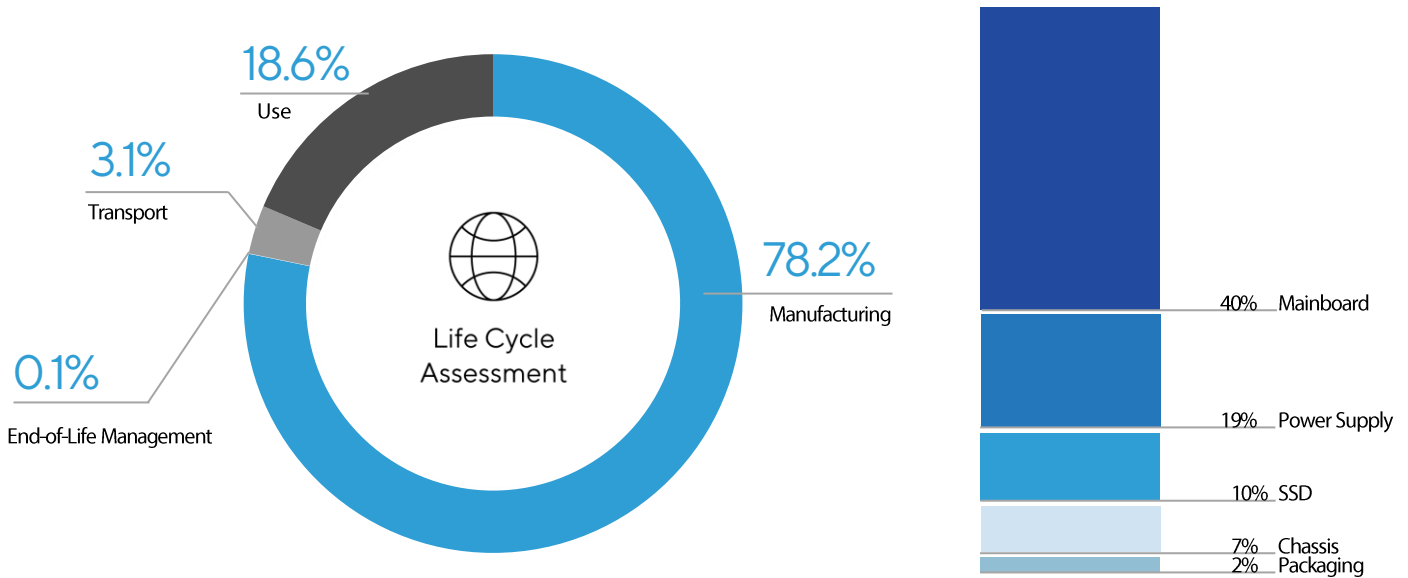
HOW WE CONDUCT

Product Carbon Footprint (PCF) is calculated using PAIA (Product Attribute to Impact Algorithm), PAIA tool is a streamlined Life-cycle assessment (LCA) tool developed by MIT's Material System Laboratory and methodology was following IEC TR 62921:2016. Throughout the entire life cycle of a product, and the assessment includes the contributions material extraction, manufacturing, packaging and ship, use and end-of-life management.

WHAT WE PRESENT

There are many variety factors including the device configuration influence the result of product carbon footprint. ASUS show the 5th and 95th percentile value and the means GHG result included standard deviation of carbon footprint estimate to reflect that uncertainty. For this product, the show the 5th and 95th percentile of carbon footprint estimate, 287 Kg CO₂e and 2892 Kg CO₂e, and that estimate has a mean of 538 Kg CO₂e and standard deviation of 289 Kg CO₂e.

This product's estimated carbon footprint by Lifecycle:



About the data

Methodology

Estimated emissions are calculated using PAIA Notebook Tool Version 1.4.0, copyright by the ICT Benchmarking collaboration including the Massachusetts Institute of Technology's Material Systems Laboratory and partners. Results shown here are subject to changed as the tool is updated.



Modular design:

90% materials and parts are easy to recycle and reuse in waste treatment plants



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ASUS' sustainability effort