

UA3 Carbon Footprint Report (Energy Star 9.0 Compliance)



Estimated
242.87 kg CO₂ eq.



To enhance the environmental performance of our products throughout their entire life cycle, we utilize **Product Carbon Footprint (PCF)** and **Life Cycle Assessment (LCA)** methodologies to measure environmental impacts at every stage. The PCF accounts for both direct and indirect greenhouse gas (GHG) emissions, measured in **carbon dioxide equivalent (CO₂e)** and evaluated using the **IPCC 2021 Global Warming Potential (GWP)** values. Our assessment covers the entire value chain—from raw material extraction, manufacturing, and transportation to product use and end-of-life disposal—helping us identify key emission drivers and advance our sustainability goals.

GHG Emissions

Lifecycle Stage	Greenhouse Gas Emissions	Unit	Percentage (%)
Raw Material Stage	64.69	kg CO ₂ eq.	26.7%
Manufacturing Stage	22.13	kg CO ₂ eq.	9.1%
Distribution & Sales Stage	108.24	kg CO ₂ eq.	44.6%
Use Stage	47.51	kg CO ₂ eq.	19.6%
End-of-Life Disposal Stage	0.30	kg CO ₂ eq.	0.1%
Total	242.87	kg CO₂ eq.	100%

UltrArmor follows **ISO 14040/44 standards** for its environmental impact calculations. Recognizing that data limitations and quality differences can lead to uncertainties, we partnered with **SGS** to combine our internal data with premium LCA datasets for a more rigorous evaluation. UltrArmor strives for maximum accuracy, though results should be understood within the context of unavoidable scientific uncertainties.

Reporting Boundary

Lifetime of product (years)	5
Use location	Europe
Use energy demand (kWh/year)	28.11 (230V/50Hz)
Product weight (kg)	1.5Kg/per unit
Final manufacturing location	China

We have planned and performed the relevant work to obtain the necessary information, explanations, and evidence in accordance with applicable regulations. This provides **reasonable assurance** as to the accuracy of the life cycle greenhouse gas emission data for the **Desktop Thin Client UA3 N370**.

Criteria

- Criteria against which the verification assessment is undertaken are the principles of ISO 14067:2018.
- The IPCC 2021 AR6 GWP values are applied in this assessment of life cycle GHG emissions for the product.