

# Product Carbon Footprint Dashboard

For Product: **jkxgdsqh**

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## 37.315 kg CO<sub>2</sub>e

Total PCF per functional unit

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**37.315 kg CO2e**

Total Footprint

**37.315 kg CO2e/unit**

Carbon Intensity (per 1.0 unit)

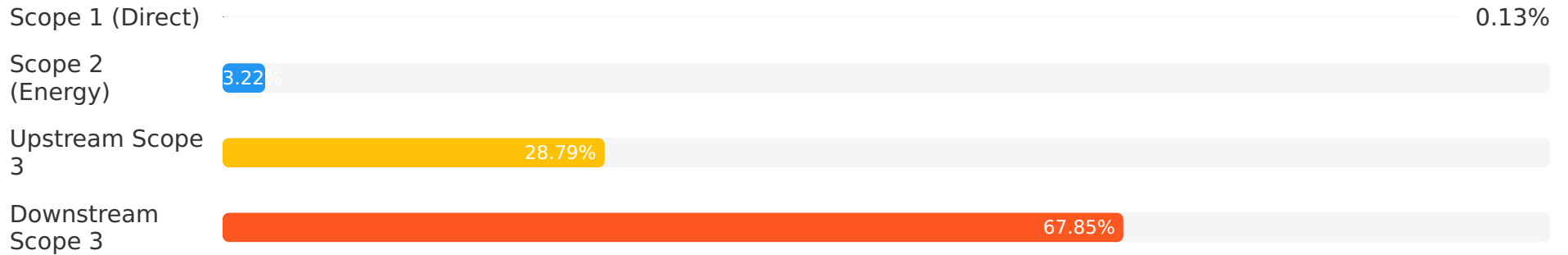
**Silicon Chipset**

Top Material Hotspot (5.00 kg CO2e)

**Downstream Scope 3**

Primary Emission Scope (67.85%)

## Lifecycle Stage Breakdown



## Top Material Carbon Impact



## Key Insights & Hotspots

- **Use Phase Dominance:** The product's energy consumption during its use phase accounts for the largest portion of emissions, contributing 67.85% of the total PCF.
- **Material Intensity:** Purchased goods and services, particularly raw material extraction and processing for components like the Silicon Chipset and Aluminum Casing, are significant, making up 28.79% of the total.
- **Production Energy:** Energy consumed during manufacturing in China represents 3.22% of the footprint, with potential for further reduction through renewable energy adoption.

## Recommendations for Impact Reduction

### Enhance Energy Efficiency

Focus on reducing energy consumption during the product's use phase through optimized power management and efficient components.

### Sustainable Material Sourcing

Prioritize low-carbon materials, increase recycled content, and engage suppliers for high-impact components like silicon and aluminum.

### Boost Renewable Production Energy

Further increase the percentage of renewable energy usage at the production facility in China to significantly cut Scope 2 emissions.

### Optimize Logistics & Circularity

Evaluate and refine transportation modes/routes, and expand circular programs for extended product lifespan and material recovery.