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Product Carbon Footprint for "kittvkkwri"

Total PCF

59.70 kgCO₂e

Total Footprint

59.70 kgCO2e

Carbon Intensity

59.70 kgCO2e/unit

Top Material Hotspot

Printed Circuit Board

Primary Emission Scope

Scope 3

Highlights & Hotspots

- **Material Acquisition** accounts for the largest portion (approximately 62.6%) of the carbon footprint, with Printed Circuit Board and Aluminum Chassis being significant contributors due to high emission factors.
- The **Use Phase** is the second largest hotspot (approximately 30.3%), driven by the product's energy consumption over its 5-year lifespan in Europe.
- Manufacturing emissions (Scope 2) and Transportation (upstream and downstream) contribute smaller but still relevant portions (approximately 3.9% and 2.4% respectively).

Action Plan for Reduction

1. **Material Optimization:** Focus on sourcing lower-carbon materials, increasing recycled content, and exploring design for longevity and modularity. Engage with suppliers for primary, verified emission data.
2. **Energy Efficiency in Use:** Invest in R&D to significantly reduce the product's energy consumption during its use phase and promote energy-efficient usage patterns to consumers.
3. **Renewable Energy Adoption:** Increase the share of renewable energy at manufacturing facilities in China beyond the current 60% and encourage supply chain partners to do the same.
4. **Enhanced Circularity:** Strengthen and expand robust take-back programs to maximize material recovery and recycling, realizing the full avoided emissions potential from displacing virgin material production.

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