

Product Carbon Footprint: mfdxtpueud

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28.17 kg CO₂e

Total Product Carbon Footprint

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28.17 kg CO₂e

Carbon Intensity

9.39 kg CO₂e/kg

Top Material Hotspot

Circuit Board

Primary Emission Scope

Scope 3 (99.8%)

Highlights & Hotspots

Material Production accounts for the largest portion (19.84 kg CO₂e) of the footprint, emphasizing sustainable sourcing.

The **Use Phase** is the second most significant contributor (9.35 kg CO₂e), driven by energy consumption over the product's lifespan.

Logistics (inbound, outbound, and last-mile) collectively contribute 1.04 kg CO₂e, highlighting opportunities for transport optimization.

Scope 3 emissions dominate the total footprint at 99.8%, reflecting the extensive indirect impacts across the value chain.

Action Plan: How to Reduce Impact

Sustainable Materials: Prioritize lower-impact materials, increase recycled content, and design for recyclability to reduce upstream emissions.

Energy Efficiency: Focus on improving the product's energy efficiency during the use phase and promote renewable energy sources for users.

Logistics Optimization: Streamline transport routes, explore lower-emission freight options, and improve load factors for all logistics stages.