

Product Carbon Footprint Dashboard

Smart IoT Sensor (jztlfhspej) - Factory Gate

15.376

 kgCO2e

Per 1.0 unit · GHG Protocol Standard · China Production

Total Footprint

Lifecycle Stage Breakdown

Key Highlights

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Use Phase	66.65% (10.950 kgCO2e)
Use Phase Dominance: The product's usage accounts for approximately 69% of the total carbon footprint, making it the most significant hotspot.	
Materials (Upstream)	29.28% (4.811 kgCO2e)
Material Impact: Purchased goods and services, particularly the PCB with components and the battery, contribute about 30% of emissions.	
Manufacturing (Scope 2)	3.65% (0.600 kgCO2e)
Top Material Hotspot	
Circular Economy Benefits: Active take-back and recycling programs for high-impact components lead to significant avoided emissions at end-of-life.	
4.000 kgCO2e (30.30% of materials)	
End-of-Life (Avoided Emissions)	-6.63% (-1.053 kgCO2e)

15.376 kgCO2e/unit

PCB with Components