

Total Carbon Footprint

**21.22**

**kgCO<sub>2</sub>e**

# ftpddqfixq (Smart Home Device)

Product Carbon Footprint Dashboard by [carboncalcpcf.com](https://carboncalcpcf.com)

## Functional Unit

**1.0 unit**

of ftpddqfixq

## Primary Hotspot

**Use Phase**

~85.3% of total emissions

## Primary Scope

**Scope 3**

~92.7% of total emissions

## Production Country

**China**

GHG Protocol Standard

# Emissions Breakdown

# Key Insights & Recommendations

## Highlights

The **Use Phase** is overwhelmingly the largest contributor to the product's carbon footprint (85.3%), primarily due to energy consumption over its lifespan.

**Scope 3 emissions** represent 92.7% of the total, underscoring the importance of value chain engagement for decarbonization.

Strong existing **circularity initiatives** (80% recyclability, take-back program) provide significant net savings at End-of-Life, reducing the overall footprint.

## Action Plan

**Optimize Use Phase Efficiency:** Further reduce energy consumption of the device through innovative low-power modes and highly efficient components.

**Decarbonize Supply Chain for Materials:** Collaborate with suppliers to source lower-carbon materials, increase recycled content, and advocate for renewable energy in their production processes.

**Enhance Manufacturing Renewable Energy Sourcing:** Strive for 100% renewable electricity for manufacturing operations in China to further reduce Scope 2 emissions.