

Product Carbon Footprint Dashboard

Product: rsisexvrhn (Smart IoT Sensor)
System Boundary: factory_gate (with holistic view)

3.765
kg CO2e / unit

3.765

Total Footprint (kg CO2e)

3.765

Carbon Intensity (kg CO2e / unit)

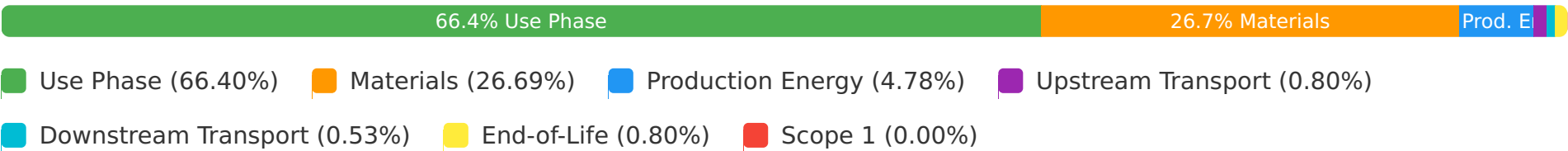
Use Phase

Top Emission Hotspot

Scope 3

Primary GHG Scope

Lifecycle Stage Breakdown



Material Carbon Impact Breakdown (Upstream)

Silicon Chipset	0.250 kg CO2e
Aluminum Mount	0.240 kg CO2e
Printed Circuit Boar...	0.200 kg CO2e
Lithium-ion Battery	0.150 kg CO2e
ABS Plastic Casing	0.125 kg CO2e
Copper Wiring	0.040 kg CO2e

Key Emissions Highlights

- The **Use Phase** dominates the carbon footprint, accounting for 66.40% of total emissions, primarily due to the sensor's 5-year energy consumption.

