FLYTECH

Product Carbon Footprint Report

K759

Product Information

Panel PC	**F87U**	**21.1"**	**536 × 328 × 48mm**
Product Family	Motherboard	Touchscreen Size	Dimensions
8kg	**Taiwan**	**5 Years**	
Weight	Manufacturing Origin	Usage Period	

Sustainability Initiatives Overview

Flytech proactively discloses the greenhouse gas impact assessment of the product throughout its lifecycle. It outlines sustainable management policies at each stage and underscores our commitment to reducing greenhouse gas emissions, thereby mitigating climate change and environmental impacts.

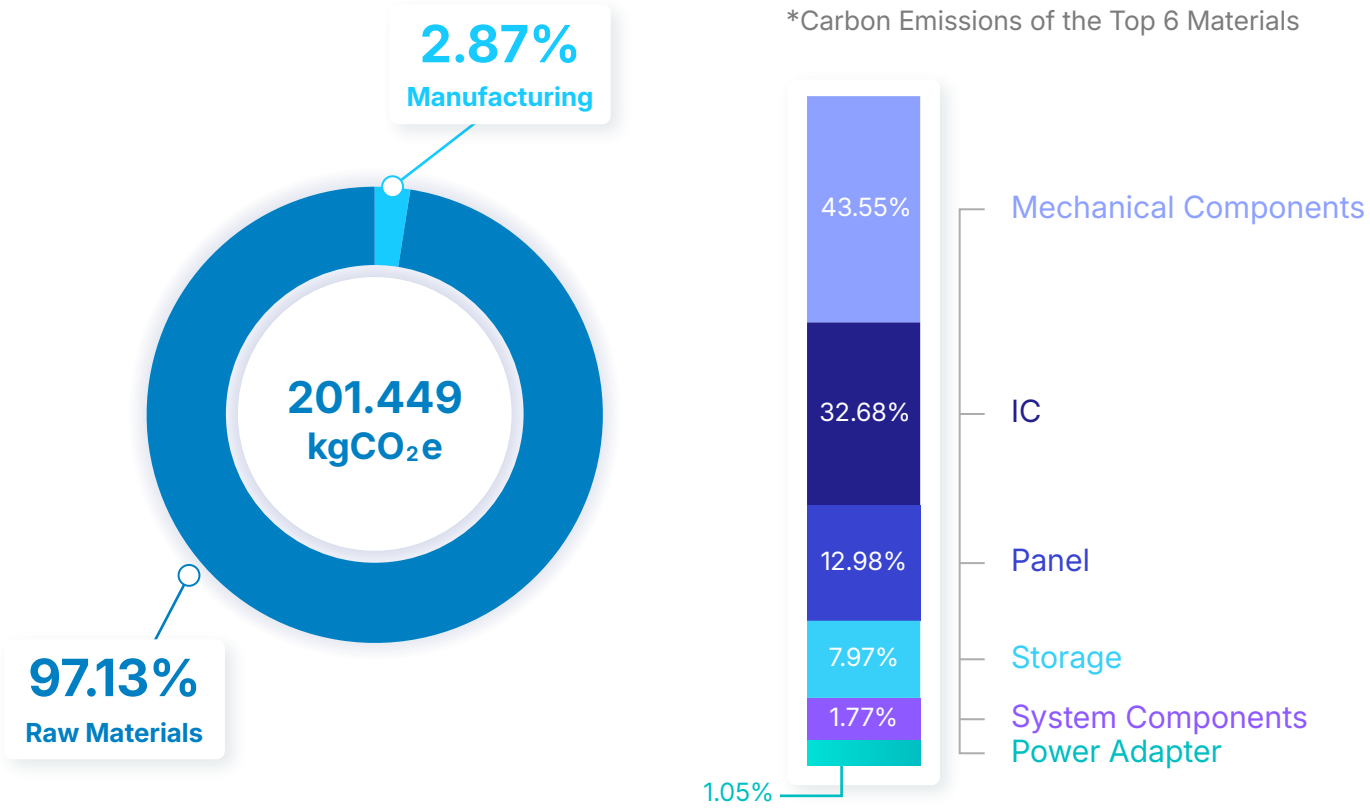
Carbon Footprint Analysis

Our carbon footprint calculation adopts a cradle-to-gate lifecycle approach, covering two primary stages: raw materials and manufacturing.

Raw Materials | Manufacturing | Delivery | Use | End-of-Life

This assessment aligns with the ISO 14067 standard and employs methodologies approved by accredited verification units. Utilizing data sourced from the Carbon Footprint Network, facilitated by the Industrial Technology Research Institute of Taiwan, and the Ecoinvent - SimaPro database, our calculations are rigorously conducted to ensure accuracy and reliability. The carbon footprint data has been validated by a third-party verification company.

The raw material phase accounts for a relatively high proportion of carbon emissions. To understand the carbon footprint distribution, please see the table below for detailed estimates by key components:



Product Lifecycle (Cradle-to-Gate) Sustainability Measures

Phase 1: Raw Materials

No Hazardous Substances

The product fully complies with the European Union Restriction of Hazardous Substances Directive (EU RoHS) and the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) regulations regarding Substances of Very High Concern (SVHC). This ensures the absence of hazardous substances, reducing chemical hazards to human health and the environment.

RoHS COMPLIANT

REACH COMPLIANT

Human Rights

Flytech adheres to the International Human Rights Conventions and Treaties to enhance its own and its supply chain's sustainable development capabilities and fulfill social responsibilities. This commitment includes safeguarding labor rights and promoting environmental protection. In addition to implementing internal management practices to ensure sustainable development and social responsibility, Flytech also requires its suppliers to commit to safeguarding labor rights and upholding related human rights.

No Procurement of Conflict Minerals

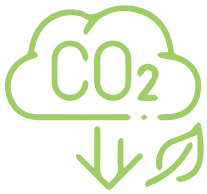
In certain mining areas, proceeds from the illegal trade of tantalum, tin, tungsten, gold, cobalt (Co), and mica are used to fund local armed groups, resulting in severe human rights violations. We uphold a zero-tolerance policy towards actions that violate human rights, disrupt social, economic, and environmental stability, or engage in illegal activities. Flytech mandates that suppliers commit to sourcing materials only from responsible and conflict-free sources.

Local Procurement

More than 80% of our procurement is locally sourced from operational locations. This practice supports local supply chains, reduces transportation distances and fuel consumption, and decreases greenhouse gas emissions.

Phase 2: Manufacturing

Carbon Reduction



Flytech conducts greenhouse gas inventories at all of its manufacturing facilities, in accordance with ISO 14064-1 standards. We continuously implement and monitor carbon reduction plans through equipment replacement and energy management.

Renewable Energy

Over 70% of Flytech's total carbon emissions stem from Scope 2 (electricity). To mitigate this impact, Flytech has gradually incorporated renewable energy sources to diminish its reliance on high-carbon electricity.

Sustainability in Product Design

Use of Recycled Plastic

The extensive use of plastic has resulted in substantial pollution of oceans, rivers, and soil. Flytech integrates recycled plastic materials throughout our processes, from research and development to design evaluation. This approach enables customers to opt for environmentally friendly materials directly from the source.

Product Hardware Efficiency

Flytech designs competitive low-carbon products by transitioning to low-power consumption CPUs. This enables customers to reduce energy consumption and save on electricity costs, while also decreasing carbon emissions generated during use.

Product Software Energy Saving Systems

Flytech provides energy-saving systems that dynamically adjust product power consumption during usage using AI algorithms. This system helps customers save on electricity costs and reduce carbon emissions. Customers have the option to install this system in their products according to their specific requirements.

Packaging Materials

Flytech consistently optimizes packaging, minimizes the use of cushioning materials, and utilizes recyclable options like cardboard. Additionally, we partner with Forest Stewardship Council (FSC) certified vendors to advocate for the use of paper materials sourced from sustainably managed forests. This initiative aims to safeguard forest ecosystems and minimize environmental impacts.

Product Lifespan Extension

Flytech employs a modular and shared design approach, enabling component replacement to improve product performance and extend its lifespan. This strategy promotes efficient utilization, environmental sustainability, and waste reduction.

Recyclable

Our design process includes environmental assessments to select materials, prioritizing the use of recyclable materials whenever feasible. Additionally, our product design fully complies with the European Union's Waste Electrical and Electronic Equipment (WEEE) Directive.