

Product Carbon Footprint Report

M276



Product Information

POS

Product Family

F33

Motherboard

11.6"

Touchscreen Size

276 × 179 × 15.4mm

Dimensions

3.5 kg

Weight

Taiwan

Manufacturing Origin

5 Years

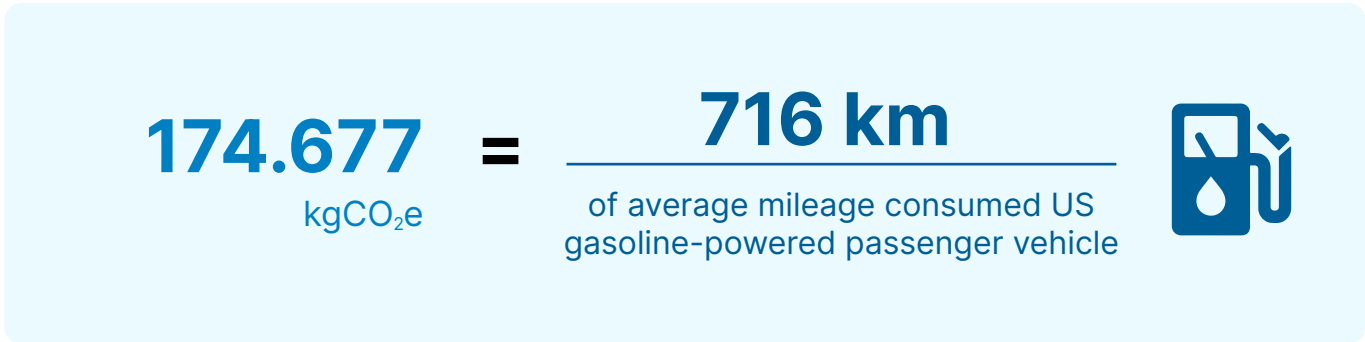
Usage Period

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

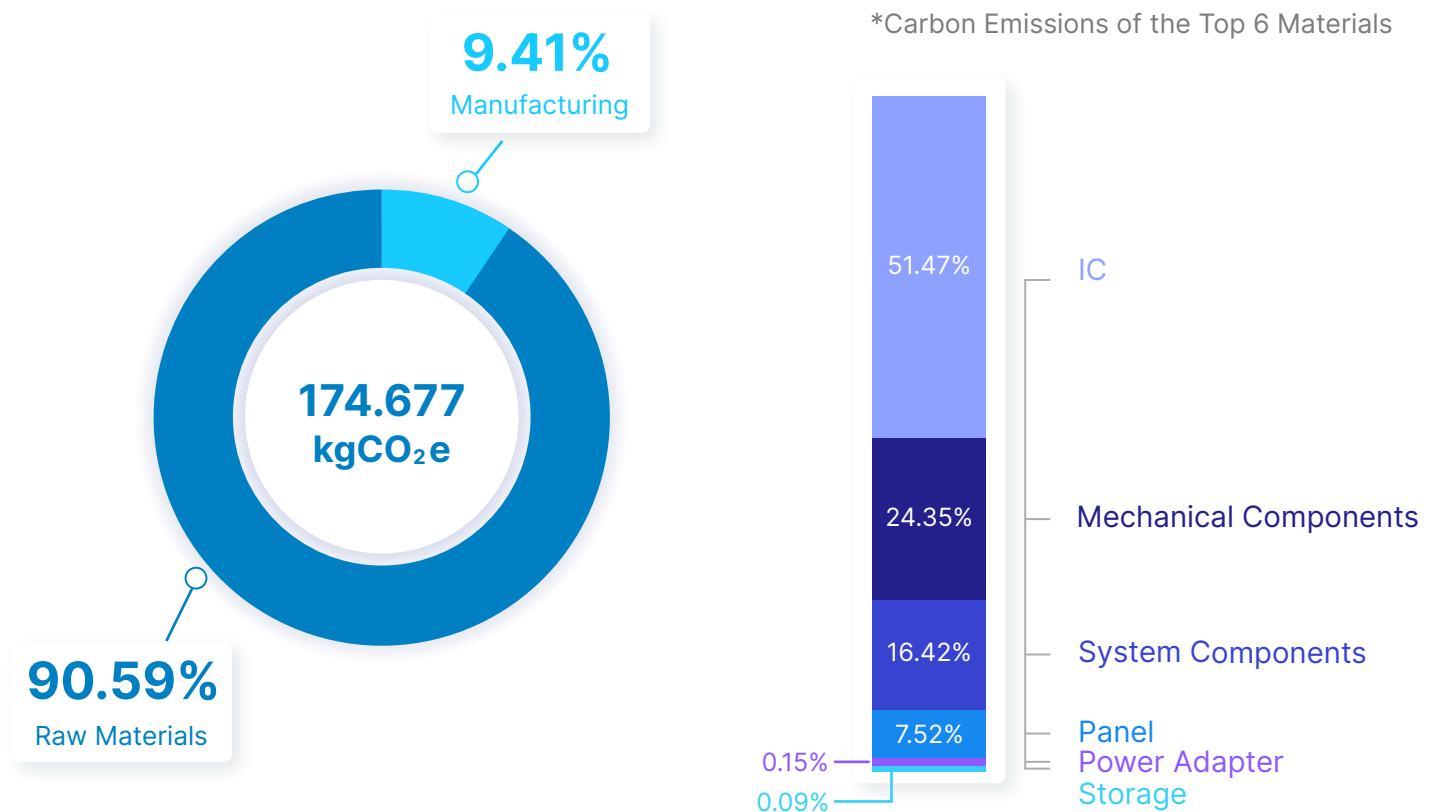
Our carbon footprint calculation adopts a cradle-to-gate lifecycle approach, covering two primary stages: raw material and production. This assessment aligns with the ISO 14067 standard and employs methodologies approved by accredited verification units. Utilizing data sourced from the Carbon Footprint 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.



Note 1: Carbon footprint data is estimated by the Company based on a verified method

Note 2: The calculation of energy consumption per kilometer follows the methodology of the [US EPA](#)

The raw material stage has a higher proportion of carbon emissions. To understand the carbon footprint distribution, please see the table below for detailed estimates by key components:



Product Lifecycle 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.



Human Rights

Flytech adheres to the Responsible Business Alliance (RBA) Code of Conduct 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.



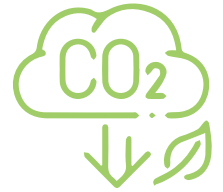
Local Procurement

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.



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.



Phase 3: Delivery

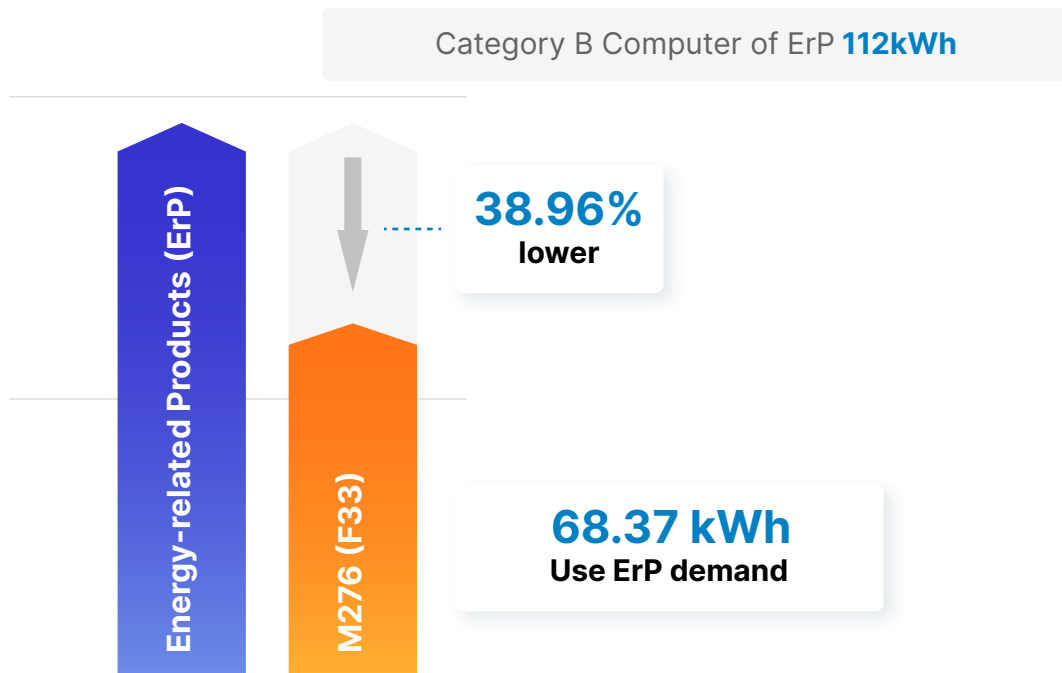
Packaging Materials

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.



Energy Efficiency

We prioritize the design of energy-efficient products. Based on energy consumption calculations, this product's energy usage is 38.96% lower than the standards set by the ErP (Energy-related Products) Directive (EU) No. 617/2013



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

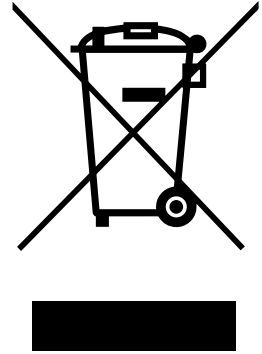
Flytech provides energy-saving systems that dynamically adjust product power consumption during usage using AI algorithms. This system helps customers save on electricity costs and reduce carbon emissions. Customers have the option to install this system in their products according to their specific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

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.



Disclaimer

All estimates of carbon footprint carry inherent uncertainty. This information sheet provides a description of the carbon footprint data for the declared product, based on current estimates of its lifecycle. However, it is subject to known or unknown risks and uncertainties, hence actual results may vary from the provided statement. The information presented here is subject to change without prior notice. Flytech Technology shall not be held liable for any technical or editorial errors or omissions contained herein.