ECOPROFILE

Surface Book 3
13.5-inch display
Our commitment to sustainability

At Microsoft Devices, sustainability is integral to our mission to build products that create magical experiences while empowering every person and organization to achieve more. From product design and new product introduction through sourcing, manufacturing, responsible delivery, and product end-of-life, we are driven to make a difference with our products both in how our customers create with them and in the impact their development has on our environment.

Physical features

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>i5: 1534 g</th>
<th>i7: 1642 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>i5: 31.2 cm x 23.2 cm x 1.3-2.3 cm</td>
<td>i7: 31.2 cm x 23.2 cm x 1.5-2.3 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PACKAGING</th>
<th>RETAIL</th>
<th>COMMERCIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1081.2 g</td>
<td>647 g</td>
</tr>
<tr>
<td>Dimensions</td>
<td>35.1 cm x 26.9 cm x 6.2 cm</td>
<td>39.7 cm x 29.5 cm x 6.3 cm</td>
</tr>
<tr>
<td>Volume</td>
<td>5907 cm³</td>
<td>7378 cm³</td>
</tr>
<tr>
<td>Materials</td>
<td>Folding carton, corrugated paper board, molded pulp, plastic</td>
<td></td>
</tr>
</tbody>
</table>

Labels and certifications

- Meets ENERGY STAR 8.0
- EPEAT Silver registered in the U.S.
- CCEL in China
- CECP in China
Environmental impact

<table>
<thead>
<tr>
<th>Greenhouse gas emissions</th>
<th>207 kg CO₂ equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy use</td>
<td>2602 MJ</td>
</tr>
</tbody>
</table>

These figures represent the estimated environmental impact\(^2\) across the product’s life cycle. The calculations are based on the Intel® Core™ i5 8GB DRAM 256GB SSD configuration and include the main device, power supply unit, and packaging. Other accessories are not included.

The greenhouse gas emissions and energy use figures are based on a Life Cycle Assessment (LCA) in accordance with ISO 14040 and ISO 14044 complemented by device-specific ETSI TS 199 and ITU-T L 1410. The Life Cycle Inventory (LCI) data is based on our own measurements, collected from suppliers, and internationally available LCI databases.

The system boundaries include extraction of raw materials, upstream materials preparation, electronic component manufacturing, subassembly manufacturing and assembly, final assembly, distribution to customer, three years of product use, and end-of-life treatment.

Software and hardware design impacts are captured in our corporate carbon footprint and excluded from the individual product LCA calculations.

![Diagram showing environmental impact breakdown]

Energy efficiency

This device meets the requirements of the ENERGY STAR Computer Specification Version 8.0 and EU Commission Regulation for Standby and Off Mode Power Consumption for Electronic Household and Office Equipment 1275/2008.


<table>
<thead>
<tr>
<th>INPUT MODE</th>
<th>100 V</th>
<th>115 V</th>
<th>230 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>0.4 W</td>
<td>0.3 W</td>
<td>0.4 W</td>
</tr>
<tr>
<td>Sleep</td>
<td>2.1 W</td>
<td>2.1 W</td>
<td>2.0 W</td>
</tr>
<tr>
<td>Idle</td>
<td>6.7 W</td>
<td>6.6 W</td>
<td>6.3 W</td>
</tr>
</tbody>
</table>

Find out more about the environmental impact of our products at:
Designing Sustainable Products

Find out more about energy efficiency at:
Improving Energy Efficiency

26.4 kW
ENERGY STAR® estimated annual energy consumption\(^2\)
Materials used

Through careful material selection we aim to reduce the environmental impact of our products. The chart shows the estimated proportions of the materials used to create this device.

- Metal parts (34%)
- Battery (19.2%)
- Display (12.1%)
- Power supply unit (14.5%)
- Circuit boards (10.2%)
- Glass (4.5%)
- Plastics (4.1%)
- Cables and wires (0.6%)
- Other (0.8%)

Restricted substances

We take a precautionary approach to substance management. We follow legislative developments and research regarding chemical impacts on health and environment and update our specifications with new product and manufacturing substance restrictions to address risks.

All our products comply with global substance restrictions and with Microsoft policies in cases where restrictions are set that go beyond the regulatory requirement.

This product fully complies with all relevant global regulations, including, but not limited to:

- Management Methods on the Prevention and Control of Pollution caused by Electronic Information Products commonly known as “China RoHS”
- European Union’s Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Regulation 2006/1907/EC
- The Montreal Protocol on Substances that Deplete the Ozone Layer
- California (USA) Proposition 65 (Device does not contain chemicals that would trigger notification)
- European Union Battery Directive 2006/66/EC

Find out more about the materials used to create our products at: Sustainable Materials and Approach

Find out more about our Restricted Substance List at: Sustainable Materials and Approach
Packaging

Integrating sustainability into our packaging designs and material selection is a priority. We improve the sustainability of our packaging by using less material, selecting more sustainable materials, and optimizing manufacturing processes. We are committed to designing and delivering packaging materials that achieve measurable sustainability gains while ensuring products are adequately protected.

Microsoft has a "paper first" strategy for our packaging. We favor paper as a packaging material because it is renewable, biodegradable and highly recycled. We are focused on minimizing the use of plastics in our packaging. When required, we strive to use plastics with recycled content and resins that are accepted for use in recycling systems. The retail packaging materials for this product contains 62 percent post-consumer recycled materials and it is 98 percent recyclable by weight. 3

This product is also offered in packaging specially designed for the commercial channel. The commercial packaging uses less materials and has a higher percent of recycled content, which reduces the environmental impacts when compared to our retail packaging as shown below.

<table>
<thead>
<tr>
<th></th>
<th>WEIGHT</th>
<th>POST-CONSUMER RECYCLED CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Packaging</td>
<td>40% lighter 4</td>
<td>10% increase 4</td>
</tr>
</tbody>
</table>

Our packaging does not contain hazardous or restricted substances, such as polyvinyl chloride (PVC), and is fully compliant with the European Union Packaging and Packaging Waste Directive 1994/62/EC, as amended, and CEN packaging standards EN 13427:2005 as well as US Toxics in Packaging legislation.

Find out more about our packaging at: Approach to Product Packaging
Recycling

Microsoft complies with global electronics recycling laws, including the EU Waste Electronic and Electrical Equipment (WEEE) Directive 2002/96/EC and its Recast 2012/19/EU and other recycling laws in Asia, Latin America and North America. We fulfill recycling obligations and meet information and labelling requirements for covered Microsoft products.

The crossed-out wheeled bin symbol marked on this product signifies that it must not be disposed of with regular household waste and needs to be taken instead to an appropriate collection point.

To help prevent uncontrolled waste disposal and promote the recycling or recovery of materials, always return your used electronic products, batteries, and packaging materials to a dedicated recycling or recovery collection point, if available in your area.

Check how to recycle your products at:

Approach to Product Recycling

Download the Microsoft Sustainability Report:

Devices Sustainability at Microsoft

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1 Weight of device only, not including power supply unit or any accessories. Weight and dimensions might vary depending on product variant.
2 The results of a life cycle assessment (LCA) depend on the calculation method, scoping and assumptions used, and they reflect our understanding at the time when published. The results are therefore not directly comparable with those conducted by other parties or at other times.
3 Percentage is based on average content by weight. Recycling facilities for these packaging materials may not exist in your area.
4 Compared to retail packaging
5 The China Certification of Environmental Labelling (CCEL) Program is intended to promote recycling, pollution reduction, and resource conservation; guide consumers in purchasing “green” products that meet environmental criteria; and encourage manufacturers to design and supply environmentally benign products for the China market. The CCEL ecolabel applies only to commercial SKUs in China.
6 The China Energy Conservation Program (CECP) is a voluntary certification program aiming at promoting the production and purchase of resource-efficient products in China. CECP certification applies only to commercial SKUs in China.
7 Configuration: 115 V 60 Hz