Satechi 145W

Satechi 145W GaN Travel Charger User Manual

Your comprehensive guide to setting up, operating, and maintaining your Satechi 145W GaN Travel Charger.

1. Product Overview

The Satechi 145W GaN Travel Charger is a high-performance, compact charging solution designed for modern mobile lifestyles. Utilizing advanced Gallium Nitride (GaN) technology, it delivers efficient power to multiple devices simultaneously, making it an ideal companion for travel and daily use.



Image: The Satechi 145W GaN Travel Charger shown with its included international plug adapters (US, EU, UK,

AU).

Key Features:

- **Intelligent Power Management:** Four USB-C PD ports with a combined 145W output. PD1 and PD2 support Power Delivery 3.1 (up to 140W), while PD3 and PD4 support Power Delivery 3.0 (up to 45W individually).
- **Advanced GaN Technology:** Graphene insulation prevents heat buildup, ensuring cooler operation and a compact, lightweight design.
- **Travel-Ready Design:** Includes four interchangeable international adapters (EU/AU/UK/US) and a mesh carrying bag for global compatibility.
- **Broad Compatibility:** Charges a wide range of USB-C devices, including laptops, tablets, smartphones, and other accessories.

2. What's Included

Your Satechi 145W GaN Travel Charger package contains the following items:

- Satechi 145W GaN Travel Charger unit
- Four interchangeable international adapters (EU, AU, UK, US)
- Mesh carrying bag
- User Manual (this document)

Note: Charging cables are sold separately. Please use certified charging cables for optimal performance and safety.



Image: The Satechi 145W GaN Travel Charger unit alongside its four distinct international plug adapters.

3. Setup

Follow these steps to set up your Satechi 145W GaN Travel Charger:

1. **Select the Correct Adapter:** Identify the appropriate international adapter (US, EU, UK, or AU) for your region.
2. **Attach the Adapter:** Align the chosen adapter with the charger's input port and slide it firmly into place until it clicks securely.
3. **Connect to Power:** Plug the assembled charger into a compatible wall outlet.
4. **Connect Devices:** Use certified USB-C charging cables (not included) to connect your devices to the charger's USB-C ports.



Image: The Satechi 145W GaN Travel Charger plugged into a wall socket, demonstrating its use in a travel setting.

4. Operating Instructions

The Satechi 145W GaN Travel Charger features intelligent power distribution across its four USB-C ports. Understanding the port capabilities and power allocation is key to optimizing your charging experience.

Port Specifications:

- **PD1 & PD2:** Power Delivery 3.1, capable of delivering up to 140W each when used individually.
- **PD3 & PD4:** Power Delivery 3.0, capable of delivering up to 45W each when used individually.

Intelligent Power Distribution:

The charger automatically adjusts power output based on the number and type of connected devices. For optimal charging, connect high-power devices (e.g., laptops) to PD1 or PD2. When multiple devices are connected, the total 145W is dynamically shared.



Image: The charger simultaneously powering a laptop (65W), tablet (30W), and headphones (20W), illustrating its multi-device charging capability.

Charging Scenarios:

The charger adapts its output based on the number of devices connected. Below are examples of power distribution:



Image: Visual representation of power output when only one port is in use (140W or 45W).

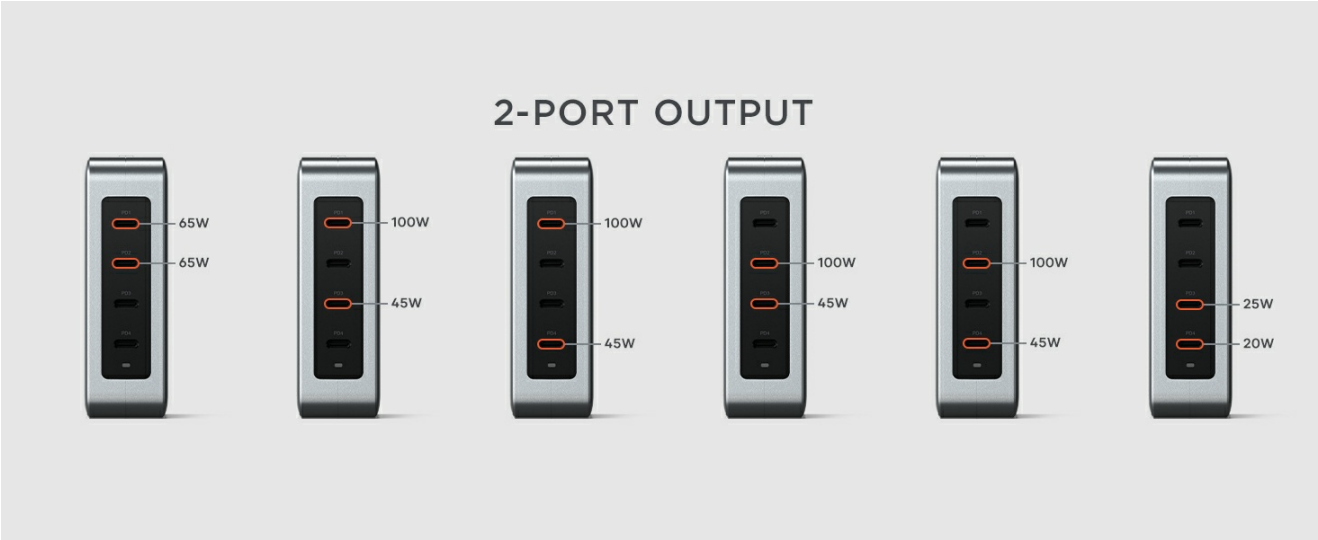


Image: Visual representation of various power output combinations when two ports are in use (e.g., 65W+65W, 100W+45W).

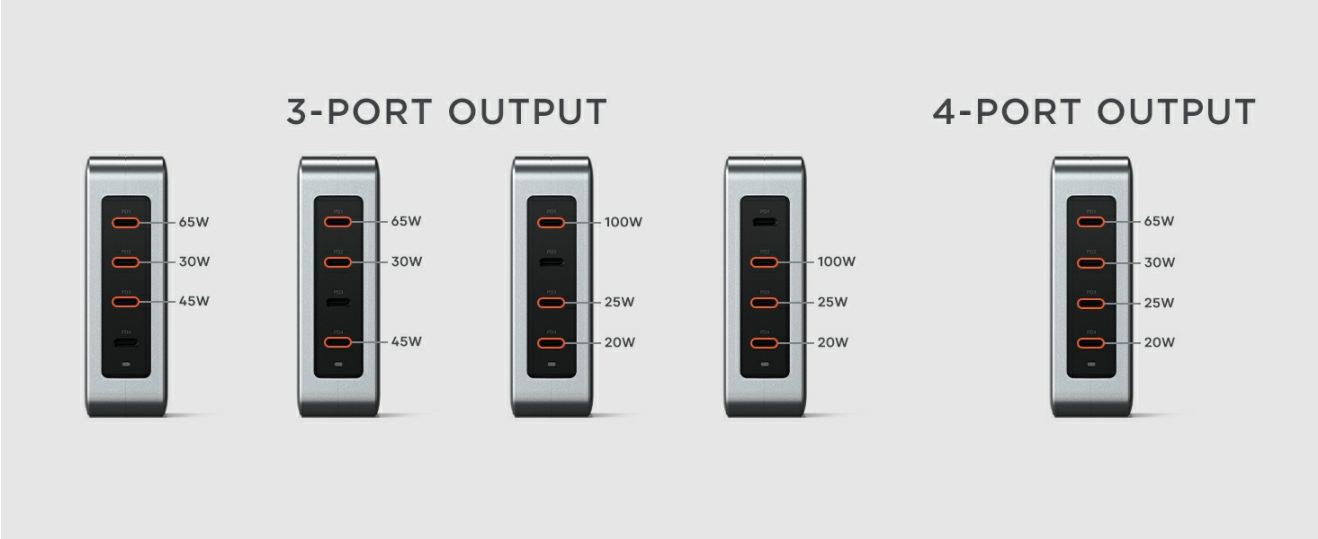


Image: Visual representation of power output combinations when three or four ports are in use (e.g., 65W+30W+45W, 65W+30W+25W+20W).

5. Compatibility

The Satechi 145W GaN Travel Charger is designed for broad compatibility with a wide range of USB-C powered devices. It supports various laptops, tablets, smartphones, and other accessories.

Compatible Devices Include:

- **Laptops:** MacBook Air/Pro (M4/M3/M2/M1), Google PixelBook, Microsoft Surface Laptop Studio, Microsoft Surface 7/8/9, Dell XPS 13, Lenovo Legion, and other USB-C laptops.
- **Tablets:** iPad Air/Pro (M4/M3/M2/M1), iPad Mini 7th gen, iPad 11th gen, and other USB-C tablets.
- **Smartphones:** iPhone 16 Plus/Pro/Pro Max (and earlier models), Galaxy S25 (and earlier models), Google Pixel 8/8 Pro (and earlier models), and other USB-C smartphones.
- **Accessories:** Apple Watch, AirPods/Pro, power banks, game consoles (e.g., Nintendo Switch), keyboards, mice, and other USB-C powered devices.

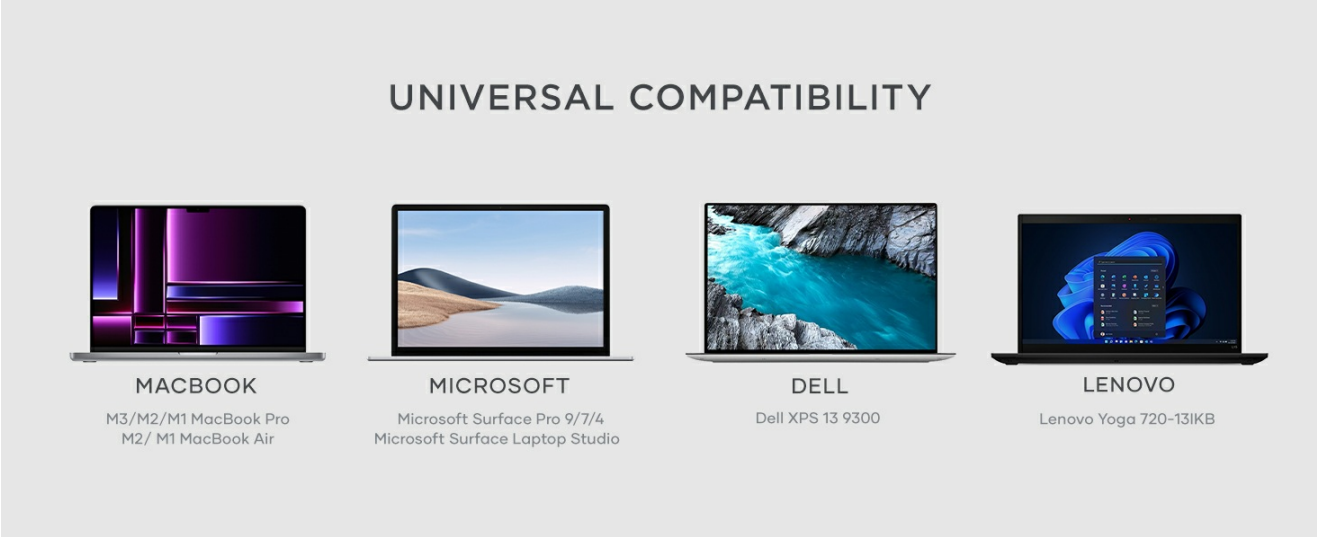


Image: Examples of compatible laptops: MacBook, Microsoft Surface, Dell XPS, and Lenovo Yoga.



Image: Examples of compatible tablets and phones: iPad, iPhone, Microsoft Surface, Android Tablet, and Android Phone.



Image: Examples of compatible accessories: AirPods, Headphones, Apple Watch, Smart Watch, Powerbank, Game Console, Keyboard, and Mouse.

6. Advanced GaN Technology

The Satechi 145W GaN Travel Charger incorporates cutting-edge Gallium Nitride (GaN) technology. GaN is a semiconductor material that replaces traditional silicon in chargers, offering several significant advantages:

- **Smaller Size:** GaN components are more efficient, allowing for smaller and lighter charger designs.
- **Faster Charging Speed:** GaN enables higher power transfer with less energy loss, leading to quicker charging times.
- **Less Heat:** Improved efficiency means less energy is wasted as heat, resulting in a cooler operating temperature for the charger.
- **More Durable:** Reduced heat and advanced materials contribute to a longer lifespan for the charger.

Image: An internal view of the Satechi charger highlighting the GaN chip and its benefits.

7. Safety Information

Your Satechi 145W GaN Travel Charger is equipped with multiple safety features to protect your devices and ensure reliable operation.

Intelligent Safety System:

- **Anti-static Protection:** Guards against electrostatic discharge.
- **Short Circuit Protection:** Prevents damage from electrical shorts.
- **Over Current Protection:** Protects against excessive current flow.
- **Overheat Protection:** Monitors and regulates internal temperature to prevent overheating.
- **Over Voltage Protection:** Shields devices from voltage spikes.



Image: The charger demonstrating its intelligent safety system with certifications and protection features.

General Safety Guidelines:

- Do not expose the charger to water, moisture, or extreme temperatures.
- Avoid dropping or subjecting the charger to strong impacts.
- Do not attempt to disassemble or modify the charger.
- Use only certified and compatible charging cables.
- Unplug the charger from the wall outlet when not in use for extended periods.

8. Troubleshooting

If you encounter issues with your Satechi 145W GaN Travel Charger, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device not charging.	Loose connection, incompatible cable, charger not plugged in, device issue.	Ensure all connections are secure. Try a different certified USB-C cable. Verify the charger is firmly plugged into a live outlet. Test the device with another charger if possible.
Slow charging speed.	Cable not supporting high wattage, too many devices connected, device not supporting fast charging.	Use a certified USB-C cable rated for high wattage (e.g., 100W or 140W). Refer to Section 4 for power distribution. Ensure your device supports the Power Delivery (PD) standard.
Charger feels warm.	Normal operation under heavy load.	It is normal for the charger to become warm during operation, especially when charging multiple high-power devices. The GaN technology helps manage heat efficiently. If it becomes excessively hot to touch, unplug it and contact support.
Intermittent charging.	Loose cable, power fluctuation, device negotiation.	Check cable connections. Try a different outlet. When connecting a new device, the charger may briefly pause power to re-negotiate optimal distribution for all connected devices. This is normal.

If the problem persists after trying these solutions, please contact Satechi Customer Support for further assistance.

9. Specifications

Feature	Detail
Product Dimensions	3.78 x 2.99 x 1.22 inches
Item Weight	12.7 ounces (approx. 360 grams)
Model Number	145W
Connectivity Technology	USB
Connector Type	USB Type C (4 ports)
Input Voltage	100-240 Volts (AC)
Total Power Output	145W
Special Features	Fast Charging, GaN Technology, Travel Adapters (EU/AU/UK/US), Intelligent Power Distribution, Multiple Safety Protections
Color	Space Gray

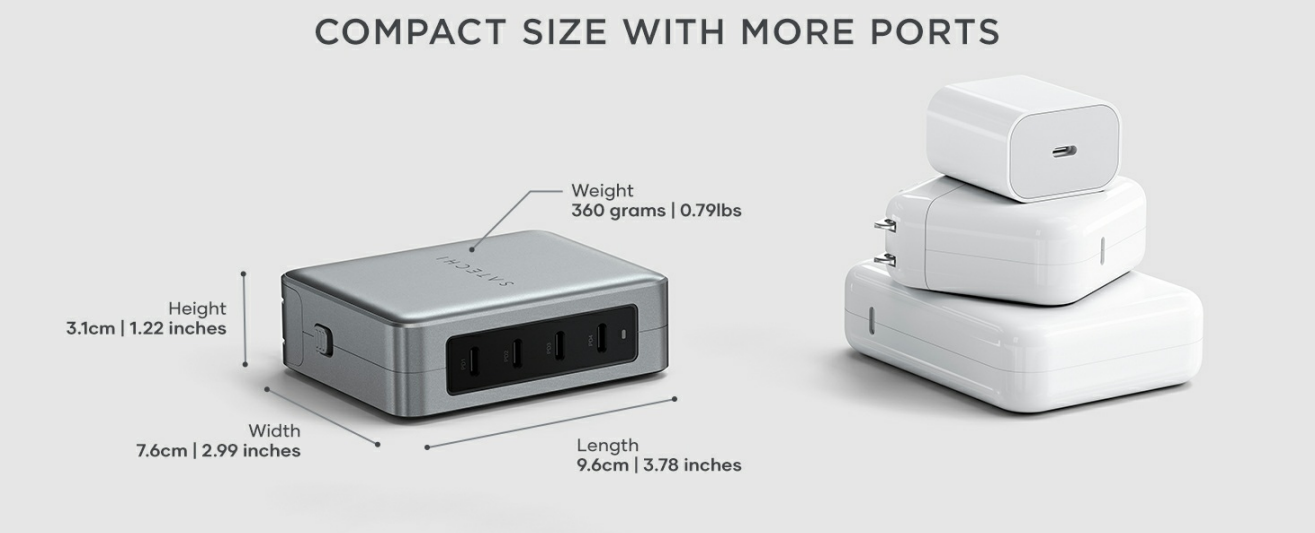


Image: Dimensions and weight of the Satechi 145W GaN Travel Charger compared to other chargers.

10. Warranty & Support

Satechi products are covered by a **2-year limited warranty** against defects in materials and workmanship under normal use. This warranty ensures your peace of mind regarding the quality and durability of your charger.
For customer support, technical assistance, or warranty claims, please visit the official Satechi website or refer to the contact information provided in your product packaging.
You can also find a digital version of the user guide (PDF) for this product at:Satechi 145W GaN Travel Charger

User Guide (PDF)

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question