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Eve 20ECN4101

Eve Energy Outlet (Matter) Smart Outlet & Power Meter - User Manual

Model: 20ECN4101

1. Introduction

The Eve Energy Outlet (Matter) is a smart in-wall outlet designed to provide app and voice control over your connected appliances and lights. It also features integrated power metering to track energy consumption. This device supports Matter over Thread, ensuring broad compatibility with major smart home platforms including Apple Home, Amazon Alexa, Google Home, and Samsung SmartThings.



Image 1.1: Front view of the Eve Energy Outlet (Matter). This image shows the white in-wall smart outlet with two standard three-prong receptacles and two green LED indicators.

2. What's in the Box

Please check the package contents to ensure all items are present:

- Eve Energy Outlet (Matter)
- Quick Start Guide
- 3 Wire Nuts

3. Safety Information

WARNING: Risk of Electric Shock.

- Installation should only be performed by a qualified electrician or a person with a thorough understanding of electrical wiring.

- Turn off power at the circuit breaker before installation, inspection, or removal.
- Use only with copper wire.
- Do not exceed the maximum electrical ratings of 15A, 120V AC, 60Hz, 1800W.
- This device is intended for indoor use only.
- Ensure all wiring connections are secure.

4. System Requirements

To use the Eve Energy Outlet, you will need:

- A compatible smartphone or tablet running:
  - iOS/iPadOS 16.4 or later (for Apple Home)
  - Android 8.1 or later (for Google Home, Alexa, SmartThings)
- A Matter-compatible hub (Thread Border Router) for your chosen platform:
  - **Apple Home:** Apple TV 4K (2nd gen / 3rd gen 128 GB), HomePod (2nd gen), HomePod mini
  - **Samsung SmartThings:** SmartThings Hub v3, SmartThings Station
  - **Amazon Alexa:** Echo (4th gen), Echo Hub, Echo Plus (2nd gen), Echo Show 8 (3rd gen), Echo Show 10 (3rd gen), Echo Studio, eero 6 / 6+ / Pro 6 / Pro 6E / Max 7
  - **Google Home:** Nest Hub (2nd gen), Nest Hub Max, Nest Wifi, Nest Wifi Pro

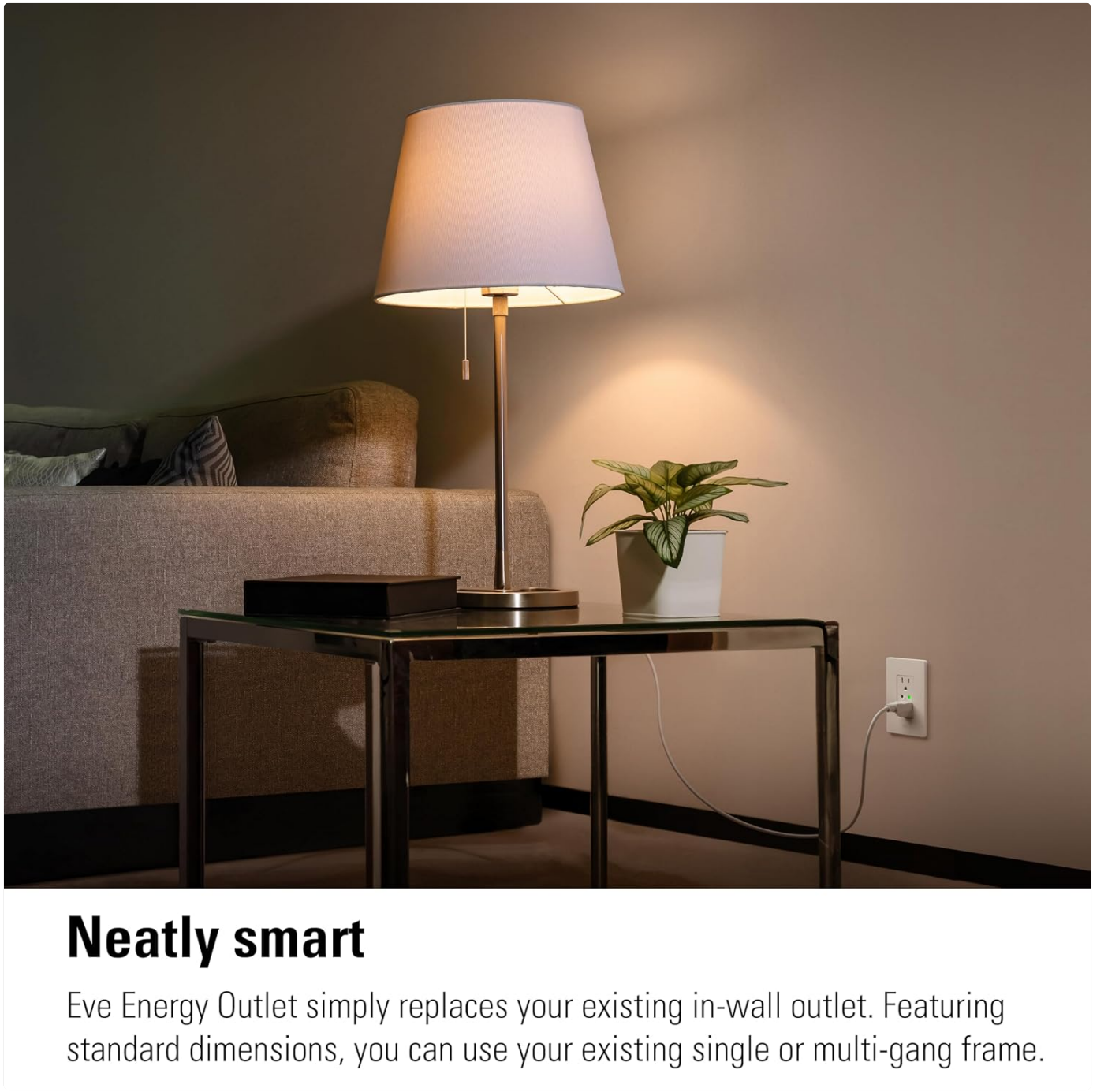


Image 4.1: Visual representation of compatible hubs and platforms for the Eve Energy Outlet. This image displays logos for Apple Home, Samsung SmartThings, Alexa, and Google Home, along with icons of their respective compatible hub devices.

5. Setup Guide

5.1. Electrical Installation

1. **Turn off Power:** Locate your circuit breaker panel and turn off the power to the outlet you intend to replace. Verify the power is off using a voltage tester.
2. **Remove Old Outlet:** Carefully unscrew and remove the existing wall plate and outlet from the electrical box. Disconnect the wires from the old outlet. Note the wire types: usually black (hot), white (neutral), and green or bare copper (ground).
3. **Wire the Eve Energy Outlet:** Connect the wires from your electrical box to the Eve Energy Outlet using the provided wire nuts or by securing them to the appropriate terminals:
    - Connect the **black (hot)** wire to the **brass-colored screw terminal**.

- Connect the **white (neutral)** wire to the **silver-colored screw terminal**.
- Connect the **green or bare copper (ground)** wire to the **green screw terminal**.

4. **Mount the Outlet:** Carefully push the wired outlet back into the electrical box, ensuring wires are not pinched. Secure the outlet to the box with the provided screws.
5. **Install Wall Plate:** Attach your existing or a new standard wall plate over the Eve Energy Outlet.
6. **Restore Power:** Return to your circuit breaker panel and turn the power back on. The Eve Energy Outlet's LEDs should illuminate.



Image 5.1: The Eve Energy Outlet seamlessly installed in a wall, blending with home decor. A table lamp is visible nearby, suggesting typical usage.

5.2. Pairing with Your Smart Home System (Matter)

The Eve Energy Outlet uses Matter for easy integration. Ensure your Matter-compatible hub is set up and connected to your home network.

1. **Open Your Smart Home App:** Launch the app for your chosen platform (e.g., Apple Home, Amazon Alexa, Google

Home, SmartThings).

2. **Add Accessory:** Follow the app's instructions to add a new accessory. This is typically a "+" icon or an "Add Device" option.
3. **Scan Matter Code:** The app will prompt you to scan the Matter setup code. This code is located on the Eve Energy Outlet itself (often on the side or front plate) and in the Quick Start Guide.
4. **Follow On-Screen Prompts:** Complete the pairing process by assigning the outlet to a room and giving it a name.

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Video 5.2: Official video from Eve Systems LLC demonstrating how to get started with Matter devices. This video provides a visual guide to the Matter pairing process, which is applicable to the Eve Energy Outlet.

6. Operating Instructions

6.1. App Control

Once paired, you can control the Eve Energy Outlet using your smart home app:

- **On/Off Control:** Tap the outlet icon in your app to toggle power to the connected device.
- **Individual Outlet Control:** The Eve Energy Outlet allows individual control of its two receptacles. Look for separate controls within your app for each outlet.
- **Remote Access:** If your smart home hub is properly configured, you can control the outlet even when you are away from home.



Image 6.1: The Eve Energy Outlet with a white power cord plugged into it, indicating active use. This image highlights the convenience of app and voice control for connected devices.

6.2. Voice Control

Use your voice assistant to control the Eve Energy Outlet:

- **Siri (Apple Home):** "Hey Siri, turn on the [Outlet Name]."
- **Alexa (Amazon Alexa):** "Alexa, turn off the [Outlet Name]."
- **Google Assistant (Google Home):** "Hey Google, set [Outlet Name] to on."

6.3. Power Monitoring

The Eve Energy Outlet includes a power meter to track the energy consumption of connected devices:

- Open the Eve app (recommended for detailed insights) or your platform's app.
- Navigate to the Eve Energy Outlet device details.
- View real-time power usage (watts), daily, weekly, or monthly consumption (kWh), and estimated costs.

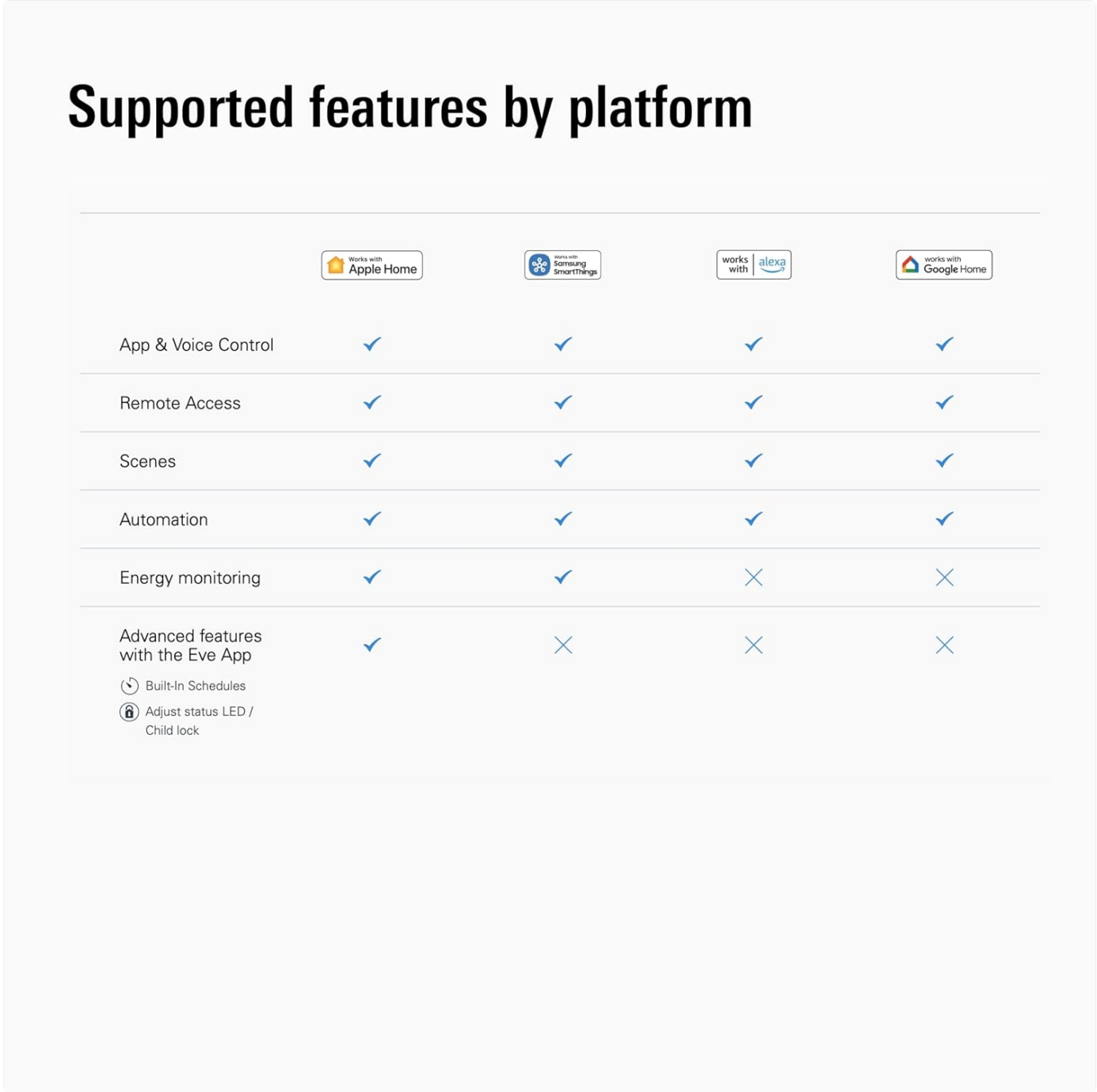


Image 6.2: The Eve Energy Outlet displayed alongside a smartphone screen showing the Eve app interface. The app displays detailed energy consumption data, including schedules, total consumption, and projected costs.

6.4. Schedules and Automations

Automate your devices for convenience and energy savings:

- **Schedules:** Set devices to turn on or off at specific times of day or based on sunrise/sunset.
- **Automations:** Create rules to trigger actions based on other smart home events (e.g., turn on a lamp when a motion sensor detects movement).
- These features are configured within your smart home platform's app (e.g., Apple Home app, Eve app, Alexa app, Google Home app).

7. Maintenance

- **Cleaning:** To clean the outlet, ensure power is off at the circuit breaker. Wipe with a soft, dry cloth. Do not use liquid cleaners.

- **Firmware Updates:** Eve periodically releases firmware updates to improve performance and add features. Check your Eve app or smart home platform app for available updates and follow the instructions to install them.

8. Troubleshooting

- **Outlet Not Responding:**
  - Ensure the circuit breaker is on and the outlet has power.
  - Check the connection to your smart home hub. Ensure the hub is online and within range.
  - Restart your smart home hub.
  - Try power cycling the outlet by turning off the circuit breaker for 30 seconds and then turning it back on.
- **Cannot Pair Device:**
  - Ensure your smartphone/tablet and hub meet the system requirements.
  - Verify your hub is Matter-compatible and acting as a Thread Border Router.
  - Make sure the Matter code is scanned correctly.
  - Reset the Eve Energy Outlet (refer to the Quick Start Guide for specific reset instructions, usually involves holding a button).
- **Inaccurate Power Monitoring:**
  - Ensure the connected appliance is fully plugged into the outlet.
  - Verify the appliance is within the outlet's wattage limits.
  - Check for any firmware updates for the outlet.

9. Specifications

Feature	Detail
Model Number	20ECN4101
UPC	813180021129
Operating Voltage	120V AC, 60Hz
Current Rating	15 A
Max Wattage	1800 W
Connectivity	Matter over Thread
Dimensions (L x W x H)	1.7 x 2.93 x 4.7 inches
Material	Polycarbonate, Copper
Certification	UL Listed
Control Method	App, Voice
Operation Mode	ON-OFF

10. Warranty and Support

The Eve Energy Outlet (Matter) comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official Eve Systems website for detailed warranty terms and conditions.
For technical support, troubleshooting assistance, or further information, please visit the Eve Systems support page:
www.evehome.com/support

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