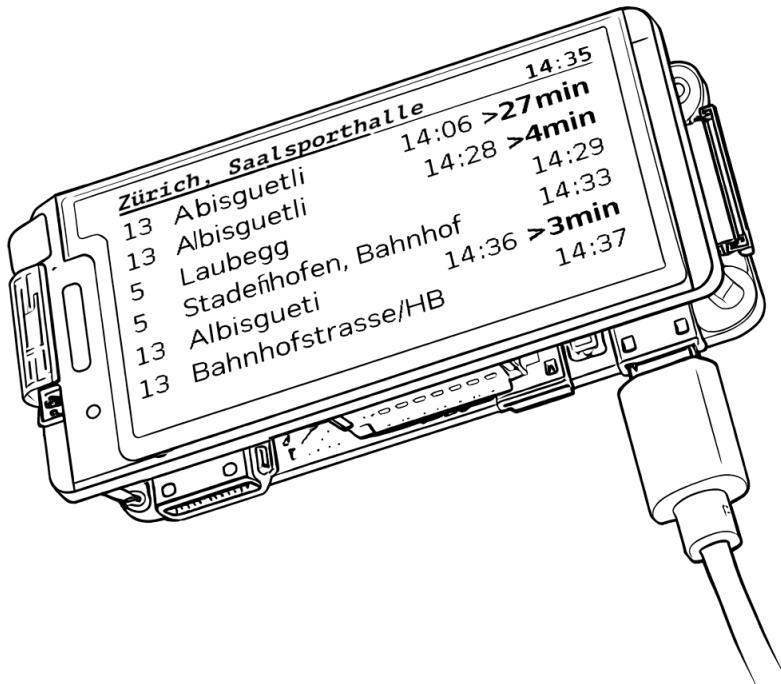


# ÖVBuddy – User Manual

V1.0 - Released Q4 2025

Smart Public Transport Ticker & Information Display



# Table of Contents

|  |          |
|--|----------|
| <b>1. Important Safety Instructions.....</b>         | <b>2</b> |
| <b>2. Introduction.....</b>                          | <b>3</b> |
| <b>3. Device Overview.....</b>                       | <b>3</b> |
| <b>4. Initial Setup.....</b>                         | <b>4</b> |
| Step 1: Power On.....                                | 4        |
| Step 2: Wi-Fi Configuration (Access Point Mode)..... | 4        |
| Step 3: Setting Your Station.....                    | 5        |
| <b>5. Daily Use.....</b>                             | <b>5</b> |
| <b>6. Troubleshooting.....</b>                       | <b>6</b> |
| <b>7. Technical Specifications.....</b>              | <b>6</b> |
| <b>8. Regulatory &amp; Disposal.....</b>             | <b>6</b> |
| Disclaimer.....                                      | 7        |

# 1. Important Safety Instructions

⚠ Please read these instructions carefully before using the device. ⚠

- **Mostly vibe-coded firmware:** This is probably one of the first vibe-coded IoT and in order to provide frictionless UX it allows a lot of sudo-commands without password. We *highly recommend* only connecting it to non-sensitive networks.
- **Indoor Use Only:** The ÖVBuddy is not waterproof. Keep it away from rain, humidity, and liquids.
- **Power Supply:** Only use a high-quality microUSB cable and a 5V power adapter (standard phone charger) or computer-port. Using incorrect voltage may damage the electronics.
- **Choking Hazard:** This device contains small components and is not a toy (*but it can become one, if you start coding for it yourself* 🎉). Keep out of reach of children and pets.
- **Thermal Safety:** Do not expose the device to extreme heat (over 45°C/113°F) or direct sunlight for extended periods.
- **Screen Care:** The E-Ink/OLED display is fragile. Do not apply pressure to the screen or drop the device.

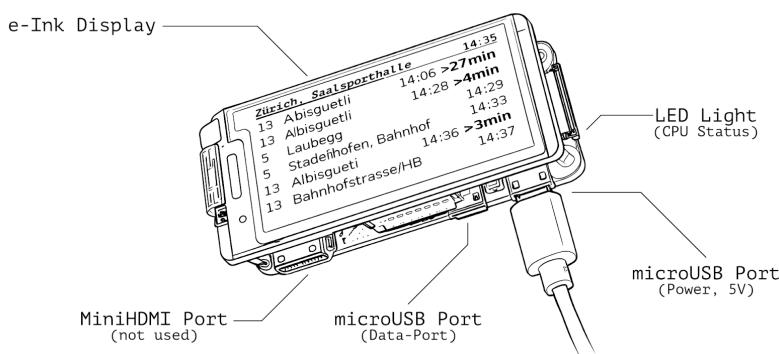
## 2. Introduction

Thank you for choosing **ÖVBuddy**. This device is designed to provide real-time public transport departures and local information at a glance. It arrives pre-assembled and pre-flashed with the latest firmware.

- ÖVBuddy Device
  - microUSB Power Cable
  - Pre-flashed microSD card
  - Quick Start Guide
- 

## 3. Device Overview

- **e-Ink Display:** High-contrast screen showing departure times, line numbers, and destinations including delays.
- **microUSB Ports:** Located on the bottom/top for power supply.
- **LED-Light:** Indicates CPU activity and RAM access.



# 4. Initial Setup

Since your device is pre-flashed and pre-configured to your Office WiFi you only need to plug in the microUSB power cable.

## Step 1: Power On

Connect the microUSB cable to the ÖVBuddy and a power source. The device will boot up.

## Step 2: Wi-Fi Configuration (Access Point Mode)

1. If the device cannot find a known Wi-Fi network, it will enter **Access Point Mode**.
2. On your smartphone or PC, search for a Wi-Fi network named "**OVBuddy**".
3. Connect to this network. A configuration page should open automatically. If it doesn't, navigate to **192.168.4.1:8080** or **ovbuddy.local:8080** in your web browser.
4. Scan for WiFi's and select your preferred Wi-Fi network and enter the password.



QR-CODE: <http://ovbuddy.local>

Default Login Credentials:

User: **admin**  
Password: **password**

## Step 3: Setting Your Station

1. In the configuration portal, enter the **Station ID** for your local transport hub (*Refer to the project documentation or your local transport authority's API for IDs*).
2. Save the settings. The device will restart and begin fetching live data.

The screenshot shows a configuration interface for a device. At the top right, there is a status bar with a blue checkmark labeled "Enabled" and three colored dots (red, yellow, green). The main area is titled "config.json".  
**Stations (one per line):** A text input field contains "Zürich Saalsporthalle" and "Zürich, Saalsporthalle". Below the input field is a placeholder text: "Enter station names, one per line".  
**Lines (comma-separated):** A text input field contains "S4, T13, T5". Below the input field is a placeholder text: "Enter line numbers separated by commas".  
**Refresh Interval (seconds):** A text input field contains "20". Below the input field is a placeholder text: "How often to update the display".

## 5. Daily Use

- **Refresh Rate:** The device updates automatically at set intervals to save power and provide accurate data.
- **Status Indicators:**
  - *Steady Light:* Device is powered and connected.
  - *Flashing:* Attempting to connect to Wi-Fi.
  - *Screen Refresh:* The E-Ink display may flicker briefly; this is normal behavior to prevent "ghosting."

## 6. Troubleshooting

- **Device displays "No Connection":** Ensure your Wi-Fi is active and the device is within range.
  - **Screen is blank:** Check the USB power connection. Try a different cable or power adapter.
  - **Data is outdated:** The device may have lost connection to the Transport API. Restart the device by unplugging and plugging it back in.
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## 7. Technical Specifications

- **Microcontroller:** ESP32 / ESP8266
  - **Connectivity:** 2.4GHz Wi-Fi
  - **Input Voltage:** 5V DC (USB-C)
  - **Firmware:** Based on SecretGnome/ÖVBuddy Open Source Software
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## 8. Regulatory & Disposal

- **WEEE Compliance:** Do not dispose of this device in household waste. Please take it to a designated collection point for electronic recycling.
- **Open Source:** This project utilizes open-source software. For source code and contributions, visit:  
<https://github.com/SecretGnome/ÖVBuddy>

## Disclaimer

*This device is provided "as is." While it uses real-time data from transport authorities, the manufacturer is not responsible for missed connections, delays, or inaccuracies in the data provided by third-party APIs.*