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› AURSINC DSTIKE WiFi Deauther & Bad USB Watch V4 User Manual

AURSINC AURSINC-Deauther Watch V4

AURSINC DSTIKE WiFi Deauther & Bad USB Watch V4 User Manual

Model: AURSINC-Deauther Watch V4

1. PRODUCT OVERVIEW

The AURSINC DSTIKE WiFi Deauther & Bad USB Watch V4 is a versatile programmable development board designed for network testing and security research. It combines the functionalities of a Wi-Fi Deauther and a Bad USB device, offering enhanced capabilities compared to previous versions. Equipped with an ESP8266 module for Wi-Fi operations and an Atmega32u4 for Bad USB functions, this watch provides a robust platform for various applications.

Key features include an improved 1000mAh rechargeable battery, a 3dB external antenna for extended signal detection, and two USB ports for charging and connectivity. The device is designed for ease of use and can be programmed via the Arduino IDE.



Figure 1.1: Front view of the AURSINC DSTIKE WiFi Deauther & Bad USB Watch V4, showing the display and external antenna.

2. FEATURES

- **Dual Functionality:** Combines Wi-Fi Deauther and Bad USB capabilities in a single device.
- **Enhanced Battery:** Features a 1000mAh rechargeable Lithium-ion battery for extended operation.
- **Improved Connectivity:** Includes a 3dB external antenna for better Wi-Fi signal detection.
- **Programmable:** Built with ESP8266 and Atmega32u4 development boards, allowing custom software development via Arduino IDE.
- **Multiple USB Ports:** Equipped with two USB ports for charging and data transfer.
- **Expandable:** Features empty solder pads for advanced customization, such as connecting ESP8266 with Atmega32u4 for Wi-Fi duck functionality.

3. SETUP

3.1 Initial Charging

Before first use, ensure the watch is fully charged. Connect the watch to a power source using one of the provided USB cables. The charging status is indicated by an LED:

- **Red LED:** Indicates the device is currently charging.
- **Green LED:** Indicates the battery is fully charged.

Note: While there are two USB ports, only one should be used for charging at a time.

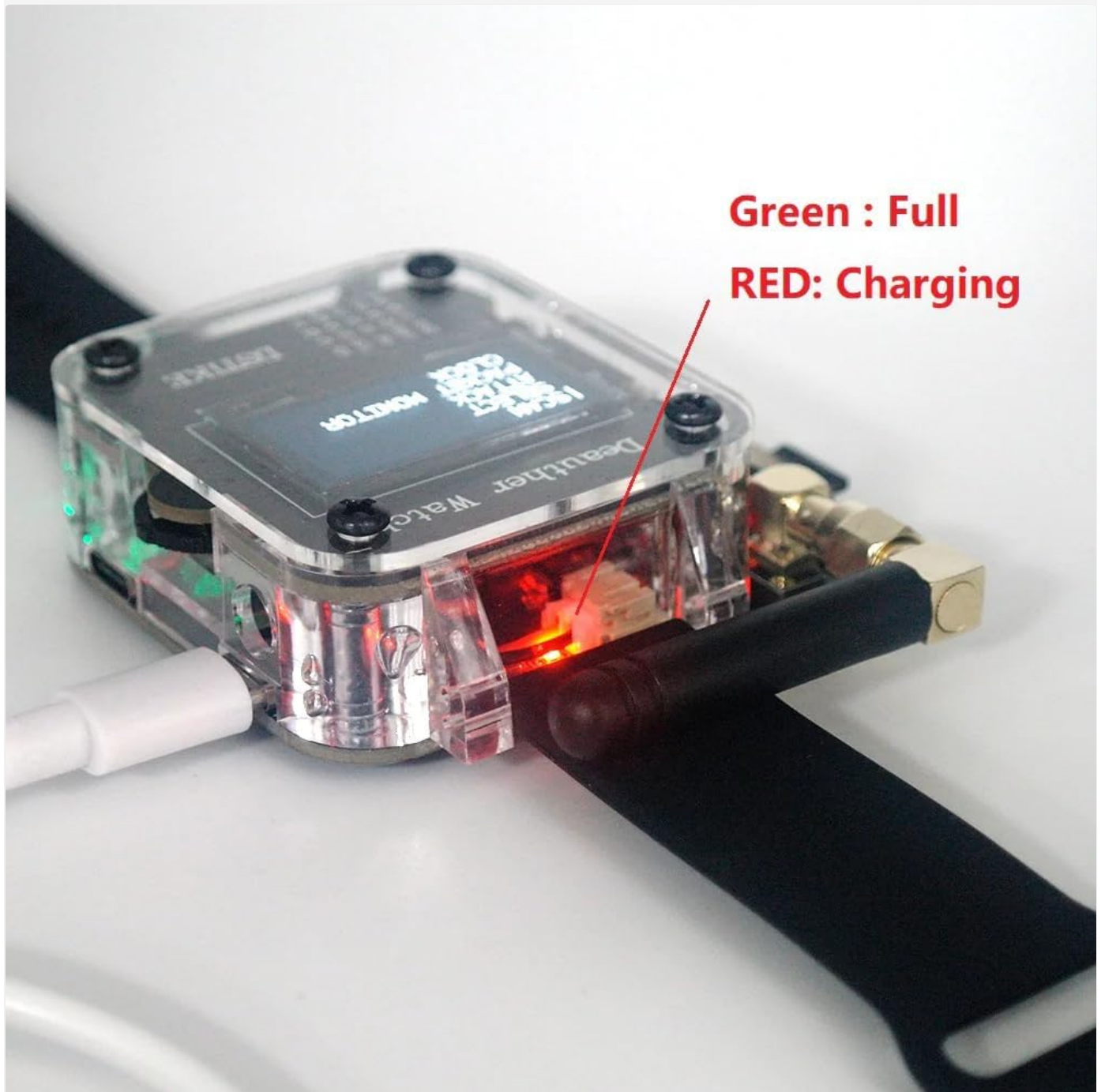


Figure 3.1: The watch connected to a USB power source, showing the red charging indicator light.

3.2 Powering On/Off

To power on the device, long press the power button for 3 seconds. To power off, long press the power button for 3 seconds again.

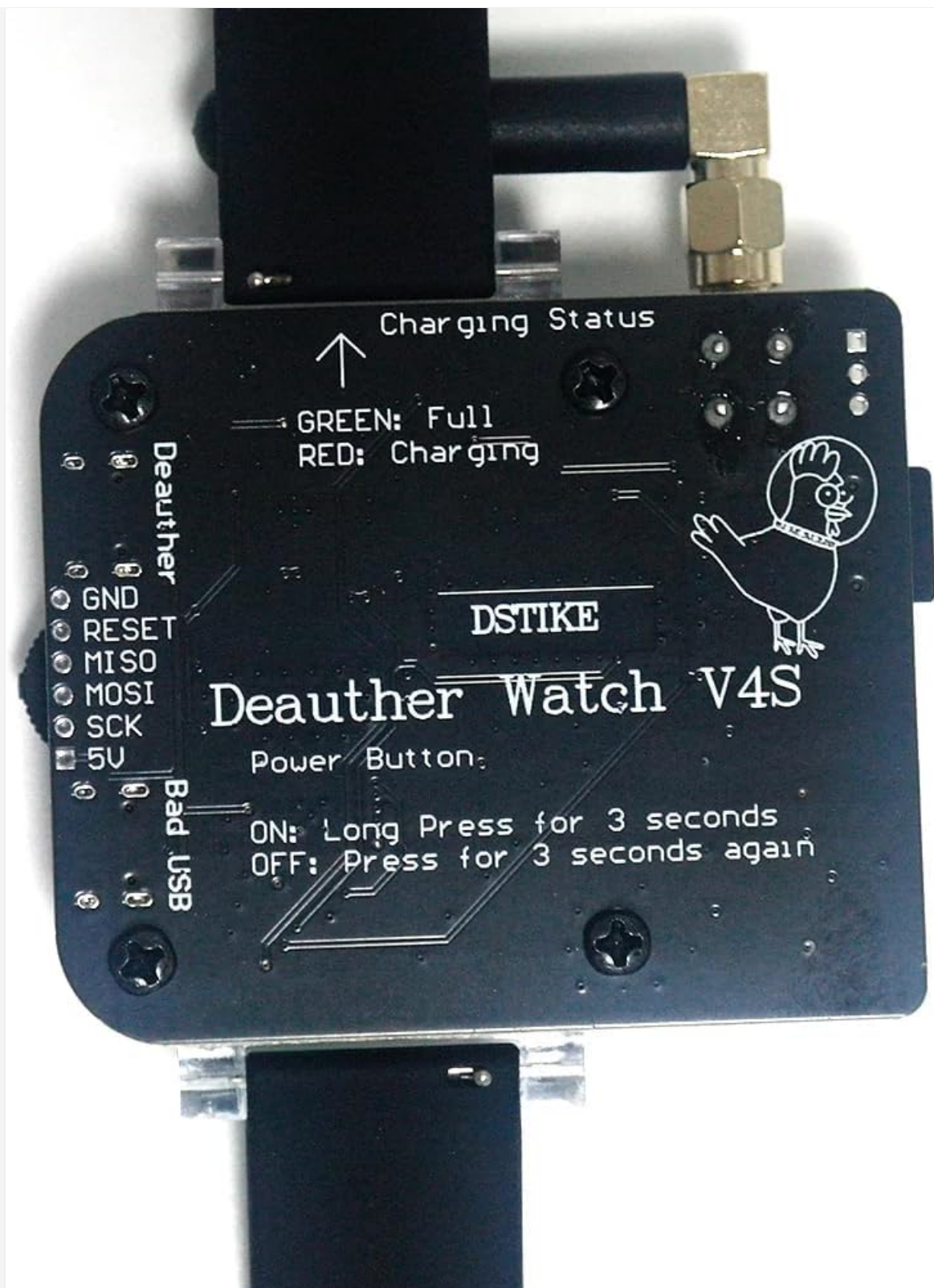


Figure 3.2: Rear view of the watch, indicating the power button and charging status LEDs.

4. OPERATION

4.1 Navigating the Interface

The watch features a small OLED display and several buttons (DP9, DP10, DP5, Reset) for navigation and control. The main menu typically displays options such as SCAN, SELECT, ATTACK, PACKET MONITOR, and CLOCK.



Figure 4.1: Close-up of the watch display showing menu options and the physical buttons (DP9, DP10, DP5).

4.2 Wi-Fi Deauther Functionality

The Deauther Watch V4 can perform various secure tests on 2.4 GHz Wi-Fi networks. This functionality is based on the ESP8266 module.

1. **Connect to the Device Hotspot:** Power on the watch. It will create a Wi-Fi hotspot named "PWNET" (default password: "deauther"). Connect your computer or smartphone to this hotspot.
2. **Access Web Interface:** Open a web browser (e.g., Chrome) and navigate to <http://192.168.4.1>.
3. **Scan for Networks:** On the web interface, go to the "Scan" page and initiate a scan for available Wi-Fi networks. Wait for 10-15 seconds for the scan to complete.
4. **Select Target:** From the list of scanned networks, select your desired target for testing.
5. **Perform Attack:** Navigate to the "Attack" page and select the type of test you wish to perform (e.g., Deauthentication). Start the attack.

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Wifi Deauther Watch



Figure 4.2: Screenshots illustrating the Wi-Fi Deauther web interface for scanning and initiating attacks.

For advanced settings and generating fake hotspots, refer to the "Settings" and "SSIDs" sections within the web interface.

2 IN 1

D&B Watch(V4)= Deauther Watch V3 + Bad USB Watch



D&B Watch(V4)



Deauther Watch V3



Bad USB Watch

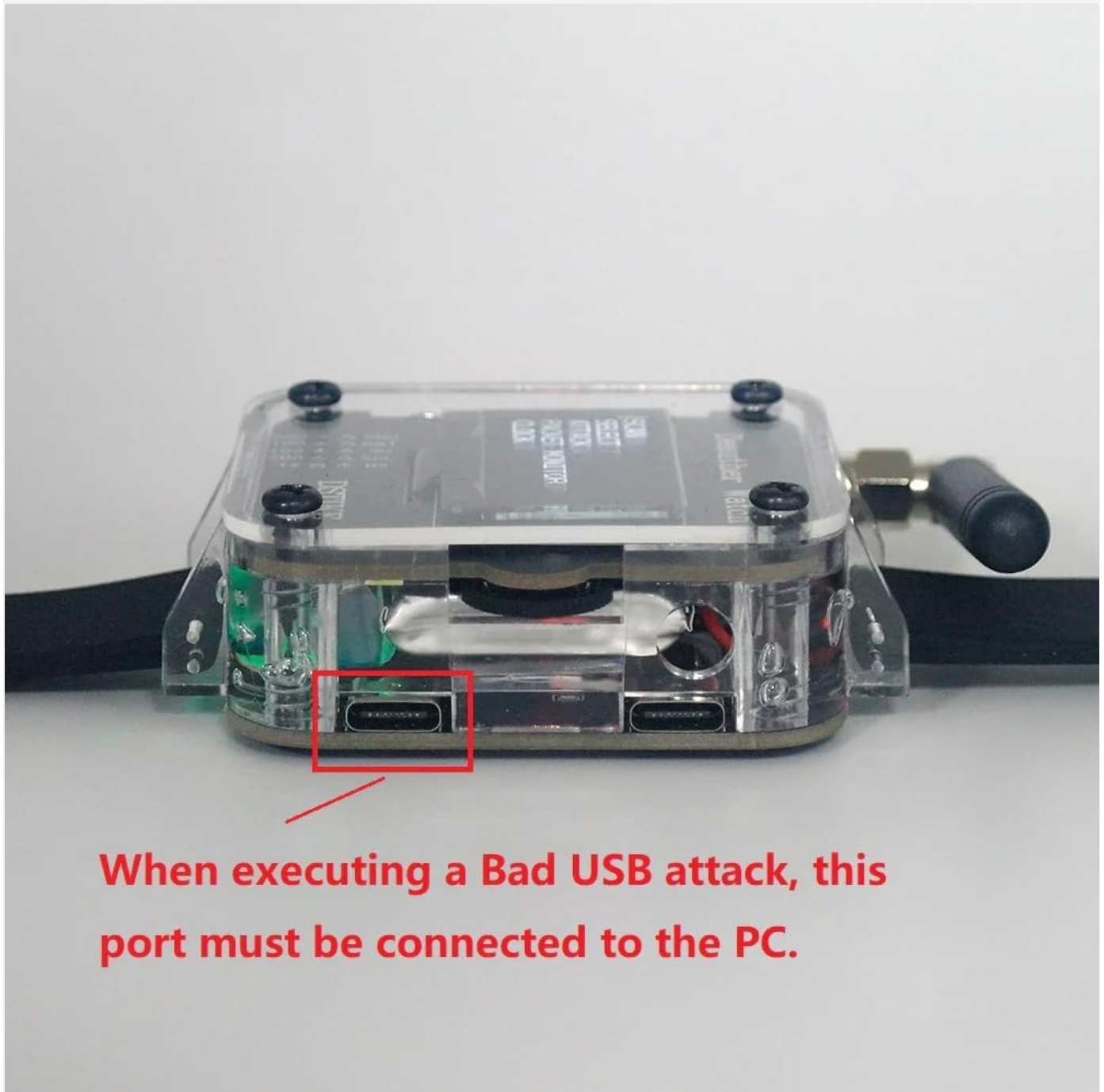
Figure 4.3: Screenshots of the web interface showing options for generating fake hotspots and regular settings.

4.3 Bad USB Functionality

The Bad USB functionality is powered by the Atmega32u4 microcontroller, pre-flashed with the Arduino Leonardo bootloader. This allows the watch to emulate a keyboard or other USB devices to execute commands on a connected

computer.

1. **Connect to PC:** Connect the watch to your computer using the designated USB port for Bad USB operations. This is typically the port highlighted in the product images for Bad USB use.
2. **Execute Commands:**
 - Pressing the **DP9 button** will execute a pre-programmed command, typically opening a command prompt window.
 - Pressing the **DP10 button** will execute another pre-programmed command, typically opening Notepad.
3. **Custom Programming:** The device can be programmed with custom Bad USB scripts using the Arduino IDE.



When executing a Bad USB attack, this port must be connected to the PC.

Figure 4.4: The specific USB port on the watch that must be connected to a PC for Bad USB attack execution.

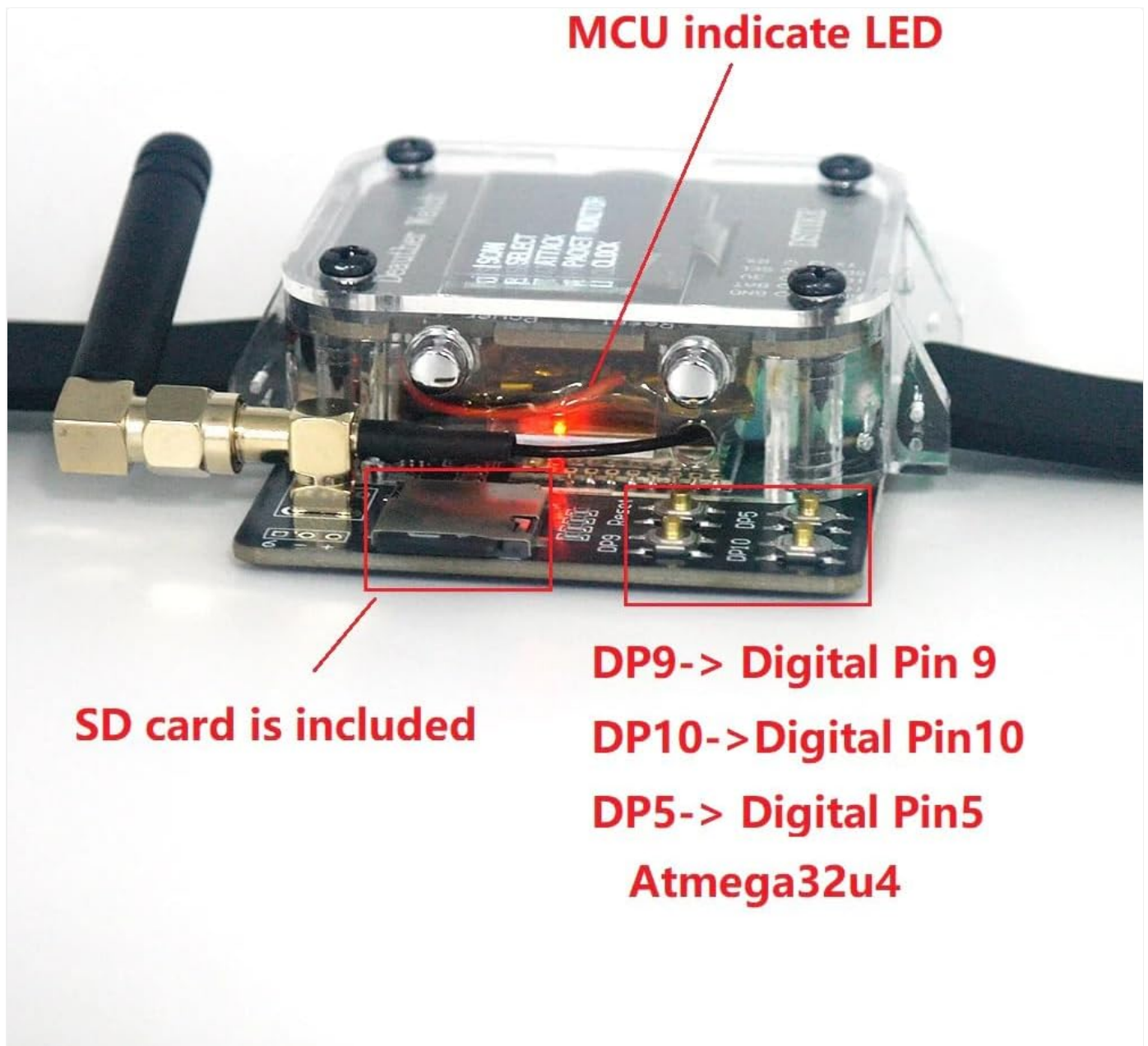


Figure 4.5: Location of digital pins DP9, DP10, and DP5, along with the MCU indicator LED and included SD card.

5. SPECIFICATIONS

Feature	Description
Model	AURSINC-Deauther Watch V4
Brand	AURSINC
Color	Black
Connectivity	USB
Total USB Ports	2
Battery Type	Lithium-ion (1 included)
Battery Capacity	1000mAh
Wi-Fi Support	ESP8266 (2.4 GHz only)

Feature	Description
Bad USB Support	Atmega32u4 (Arduino Leonardo bootloader)
Antenna	3dB External Antenna



DIFFERENCE	Deauther Watch V3	Deauther Watch V4
Battery	800mAh	1000mAh
Function	Wifi Deauth	Bad USB & Wifi Deauth
Bootloader	ESP8266 Development Board	ESP8266 Development Board & Atmega32u4(Arduino Leonardo)
Working time	8 hrs	10 hrs
Strap	Canvas	Silicone
Design	3D case	3D case(Added bottom acrylic board to protect this watch)
USB port	1	2
Empty solder pad	NA	YES

Figure 5.1: A comparison table highlighting the differences and improvements between Deauther Watch V3 and V4 models.



Figure 5.2: Diagram showing the approximate dimensions of the Deauther Watch V4.

6. TROUBLESHOOTING

- **Device not powering on:** Ensure the battery is charged. Connect to a USB power source and check for the red charging indicator.
- **Cannot connect to Wi-Fi hotspot:** Verify the hotspot name is "PWNET" and the password is "deauther". Ensure the watch is powered on and Wi-Fi functionality is active.

- **Bad USB commands not executing:** Confirm the watch is connected to the PC via the correct USB port for Bad USB. Ensure the Arduino Leonardo bootloader is correctly flashed and no other programs are interfering.
- **Wi-Fi scan not detecting networks:** Ensure the external antenna is securely connected. The ESP8266 only supports 2.4 GHz networks; ensure target networks are within this frequency.
- **Short battery life:** Ensure the battery is fully charged before use. Avoid using both USB ports for charging simultaneously.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the watch. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the watch in a cool, dry place away from direct sunlight and extreme temperatures.
- **Firmware Updates:** Periodically check the official AURSINC or DSTIKE resources for firmware updates to ensure optimal performance and access to new features.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in active use.

8. SUPPORT

For further assistance, technical support, or inquiries regarding the AURSINC DSTIKE WiFi Deauther & Bad USB Watch V4, please refer to the official AURSINC website or contact their customer service. Detailed documentation and community forums may also be available for advanced users and developers.

AURSINC is dedicated to providing professional measurement tools and electronic products. Their customer service team is available to assist with any questions or concerns.

9. IMPORTANT SAFETY INFORMATION

This device is intended for educational and security research purposes on networks you own or have explicit permission to test. Unauthorized use on other networks may be illegal and is not condoned by the manufacturer. Always use responsibly and in compliance with local laws and regulations.

- Do not expose the device to water or extreme temperatures.
- Do not attempt to disassemble or modify the device beyond specified expandable features.
- Keep out of reach of children.
- Use only approved charging cables and power adapters.