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Tuidudi PM3 Easy 3.0 512K

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Model: PM3 Easy 3.0 512K

INTRODUCTION

The Tuidudi Proxmark3 Easy V3.0 is an advanced RFID research and development tool designed for professionals and enthusiasts. It features a 512KB flash EEPROM, allowing for the installation of the latest RRG/Iceman firmware. This device is capable of interacting with both High Frequency (HF) and Low Frequency (LF) RFID tags, offering functionalities such as reading, writing, and cloning. It is built with integrated antennas for optimal performance and portability.

Note: This device does NOT feature quick-swappable or detachable antennas. Operation requires familiarity with terminal command-line interfaces.

PACKAGE CONTENTS



Image: The Proxmark3 Easy V3.0 device, accompanied by a USB data cable, several white RFID cards (IC-CUID, ID-T5577, IC-S50, IC-UID), and two blue RFID key tags.

- 1x Proxmark3 V3.0 DEV Easy 512 Module
- 1x USB Data Cable
- 2x 13.56Mhz Mifare 1 S50 PVC Card
- 2x 13.56Mhz Mifare UID PVC Card
- 2x 13.56Mhz Mifare CUID PVC Card
- 2x 13.56MHz RFID Key IC Tag (Blue)
- 2x 125Khz x T5577 ID PVC Card

SETUP GUIDE

1. Unboxing and Initial Connection:

Carefully remove the Proxmark3 Easy V3.0 device from its packaging. Connect the device to your computer using the provided USB data cable. Ensure the cable is plugged into the correct USB port on the device, as it may have multiple ports.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing of a Proxmark3 Easy device and the initial connection to a computer via USB. It highlights the importance of using the correct USB port for power and data transfer.

2. Driver and Firmware Installation (Windows 10 Example):

Verify that your computer automatically detects the Proxmark3. You can check this in the Device Manager under 'Ports (COM & LPT)' for a 'USB Serial Device (COMx)'.

Download the recommended firmware binaries for Proxmark3 Easy from a trusted source (e.g., proxmarkbuilds.org).

Extract the downloaded 7-zip file to a directory without spaces or special characters in its path.

Due to potential unknown firmware on the device, first run the `pm3-flash-bootrom.bat` script. Double-click the batch file; it will automatically detect the serial port. If the process gets stuck, unplug the Proxmark3, hold down the button, and plug it back in to enter bootloader mode, then retry.

After successfully flashing the bootrom, proceed to flash the full image by running `pm3-flash-fullimage.bat`. If this also gets stuck, repeat the unplug-hold button-plug in sequence.

Your browser does not support the video tag.

Video: This video illustrates the process of setting up the Proxmark3 Easy on Windows 10, including checking device detection in Device Manager, downloading firmware, and flashing the bootrom and full image using batch scripts. It also demonstrates how to recover if the flashing process encounters an issue.

3. Client Software:

Once firmware is flashed, run the client software by double-clicking `pm3.bat`. This will open the command-line interface for interacting with the Proxmark3.

4. Antenna Check:

Within the client, use the `hw tune` command to check the functionality of both the Low Frequency (LF) and High Frequency (HF) antennas. This command measures antenna characteristics and provides informative output.

OPERATING INSTRUCTIONS

The Proxmark3 Easy V3.0 supports various operations for both HF and LF RFID tags, including reading, writing, and cloning. All operations are performed via the command-line interface of the client software.

Basic Read/Write/Clone Operations (Example for T5577 and EM4100)

1. Identify Card Type:

Place the target RFID card on the appropriate antenna area (LF for 125kHz/134.2kHz, HF for 13.56MHz). Use commands like `lf search` or `hf search` to identify the card type and retrieve its unique ID (UID) or other relevant data.



Image: A close-up view of the Proxmark3 Easy V3.0, highlighting the Low Frequency (LF) antenna area, which operates at 125KHz.

2. Cloning an LF Card (e.g., EM4100 to T5577):

If you have an EM4100 card and want to clone it to a T5577 card:

- Place the EM4100 card on the LF antenna.
- Use `lf search` to read its ID. For example, if the ID is `52003252E4`.
- Remove the EM4100 card and place a blank T5577 card on the LF antenna.
- Execute the clone command: `lf em 410 clone --id 52003252E4`. Replace the example ID with your actual EM4100 ID.
- The T5577 card will be written with the EM4100's ID. Verify by using `lf search` on the newly written T5577 card.

Your browser does not support the video tag.

Video: This video provides a detailed demonstration of read and write operations using the Proxmark3 Easy, including identifying card types and cloning an EM4100 ID to a T5577 card via command-line interface.

3. Cloning an HF Card (e.g., MIFARE Classic 1K):

For MIFARE Classic 1K cards, the process involves reading the card's data, potentially decrypting sectors if encrypted, and then writing the data to a compatible blank card (e.g., a Magic UID card).

- Place the MIFARE Classic 1K card on the HF antenna.
- Use `hf mf search` to detect the card.
- If the card is encrypted, you may need to use `hf mf nested` or other decryption commands to obtain the keys.
- Once data is read and keys are obtained, place a blank Magic UID card on the HF antenna.
- Use `hf mf restore` or `hf mf write` commands with the obtained data to clone the card.

PRODUCT SPECIFICATIONS

Model	PM3 Easy 3.0 512K
Brand	Tuidudi
EEPROM Size	512K
Working Voltage	3.5-5.5V
Working Current	50-130mA
Item Dimensions (LxWxH)	8.8 x 5.5 x 1.6 cm (3.4 x 2 x 0.43 inches)
Power Source	USB
Connectivity Technology	USB
Special Feature	Portable
Supported Frequencies	125 kHz / 134.2 Khz (LF), 13.56 Mhz (HF)
Supported LF Chips	T55xx, EM4100, FDX-B Animal Tag, H-ID
Supported HF Chips	MF 1k, 4K, etc.

MAINTENANCE

Keep the device clean and free from dust. Avoid exposing it to extreme temperatures or moisture. Regularly check for firmware updates from official sources to ensure optimal performance and access to the latest features and security patches.

TROUBLESHOOTING

- **Device Not Detected:** Ensure the USB cable is securely connected to both the Proxmark3 and your computer. Check Device Manager for "USB Serial Device (COMx)". If not present, try a different USB port or cable. Reinstalling drivers may be necessary.
- **Firmware Flashing Issues:** If the flashing process (e.g., `pm3-flash-bootrom.bat` or `pm3-flash-fullimage.bat`) gets stuck, unplug the Proxmark3, press and hold the button on the device, then plug it back into the USB port. This forces the device into bootloader mode, allowing you to retry the flashing process.
- **Antenna Tuning Problems:** Use the `hw tune` command in the client to diagnose antenna issues. Ensure cards are placed correctly on the designated LF or HF antenna areas.
- **Command Line Errors:** Ensure you are using the correct syntax for commands. Refer to the client's built-in help (`help` command) for detailed usage information.

SUPPORT

For further assistance or inquiries, please feel free to contact Tuidudi customer support. We are committed to providing prompt and helpful responses.

For community support and advanced usage, refer to the official Proxmark3 forums and documentation available online.