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Aideepen T48

Aideepen T48 Programmer Instruction Manual

Model: T48

1. Introduction

The Aideepen T48 Programmer is an advanced, high-speed universal programmer designed for a wide range of integrated circuits. As an upgrade to the TL866II Plus, it offers enhanced performance and broader compatibility. This manual provides essential information for the proper setup, operation, and maintenance of your T48 Programmer.

2. Package Contents

Verify that all items listed below are included in your package. If any components are missing or damaged, please contact customer support.

- T48 Programmer Unit (TL866-3G)
- USB Cable
- PLCC Extractor
- SOP8-DIP8 Clip
- PLCC20 Adapter
- SOP28 300mil Adapter
- SOPS/SOP16 Adapter
- SOP8/16-DIP16 Board
- SOP8 150mil Adapter
- SOP8 200-209mil Adapter
- PLCC32 Adapter
- PLCC28 Adapter
- PLCC44 Adapter



Image: The Aideepen T48 Programmer shown with its various included adapters and accessories, such as the USB cable, PLCC extractor, and different SOP and PLCC sockets.

3. Key Features

- **Upgrade Model:** The T48 programmer is an improved version of the TL866II Plus, offering enhanced capabilities.
- **40-Pin ZIF Socket:** Features a high-quality, industrial-grade 40-pin Zero Insertion Force (ZIF) socket that is pluggable and replaceable.
- **Faster Programming Speed:** Significantly faster programming for W25Q80, SPI NOR FLASH, P-NAND, and P-NOR FLASH, with speeds over 5 times faster than previous models.
- **Wide Chip Support:** Supports a broad range of chips including SPI NAND, EMMC, EMCP, FLASH (27/28/29/39/49/50 series), Serial (24/25/26/35/45/93/95 series), and 74 Series Logic IC Visual Test.
- **Automatic OS Identification:** Automatically identifies and runs under various Windows operating systems including XP, 2003, 2008, Vista, Win7, WIN8, WIN10, and WIN11.
- **16-Channel ISP:** Integrated 16-channel In-System Programming (ISP) functionality.
- **Self-Test Function:** Includes a self-test function for diagnostic purposes.



Image: Close-up view of the T48 Programmer highlighting its 40-pin industrial ZIF socket and a list of supported chip types including EMMC, Parallel NAND, SPNAND, GAL/PAL, MCU, EPROM, and Serial ICs.

4. Setup

1. **Software Download:** The T48 Programmer requires specific software for operation. The software is not included on a physical CD. Please download the latest version from the official XGecu website. A common download link is: www.mediafire.com/folder/hfg5kfj7euw5j/xgecu. Ensure you download the correct software version for the T48 model. If the website is in a foreign language, use a browser's translation feature.
2. **Software Installation:** After downloading, extract the software package and follow the on-screen instructions to install it on your Windows operating system (XP, 2003, 2008, Vista, Win7, WIN8, WIN10, WIN11). The software should automatically identify your operating system.
3. **Connect Programmer:** Connect the T48 Programmer to your computer using the provided USB cable. The device will draw power and communicate via this connection.
4. **Driver Installation:** The software installation typically includes the necessary drivers. If prompted, allow the system to install any required drivers for the T48 Programmer.

5. Operating Instructions

This section outlines the general steps for using the T48 Programmer. Specific operations may vary based on the chip type and software version.

1. **Launch Software:** Open the XGecu programming software on your computer.
2. **Select Chip:** In the software interface, select the specific chip model you intend to program or read. The software often has an auto-detect feature for compatible chips.
3. **Insert Chip:** Carefully insert the chip into the 40-pin ZIF socket. Ensure the chip's orientation matches the arrow or pin-1 indicator on the socket. For smaller or different package types, use the appropriate adapter from the package contents and then insert the adapter into the ZIF socket.
4. **Perform Operation:**
    - **Read:** To read data from the chip, select the "Read" option in the software. The data will be displayed or saved to a file.
    - **Write/Program:** To write data to the chip, load the desired data file (e.g., firmware, BIOS) into the software, then select the "Write" or "Program" option. Confirm the operation when prompted.
    - **Erase:** Some chips require erasing before programming. Select the "Erase" option if necessary.
    - **Verify:** After writing, it is recommended to perform a "Verify" operation to ensure the data was written correctly.
5. **Remove Chip:** Once the operation is complete, carefully open the ZIF socket lever and remove the chip or adapter.



Image: The T48 Programmer unit, showcasing its main body and the 40-pin Zero Insertion Force (ZIF) socket where chips or adapters are inserted for programming.

6. Maintenance

- **Keep Clean:** Regularly clean the programmer and its accessories with a soft, dry cloth. Avoid using liquid cleaners.
- **Handle with Care:** The ZIF socket and adapters contain delicate pins. Handle them carefully to prevent bending or damage.
- **Storage:** Store the programmer and its accessories in a dry, dust-free environment when not in use.
- **Software Updates:** Periodically check the official XGecu website for software and firmware updates to ensure optimal performance and compatibility with new chips.

7. Troubleshooting

- **Programmer Not Detected:**
  - Ensure the USB cable is securely connected to both the programmer and the computer.

- Try a different USB port or cable.
- Verify that the drivers are correctly installed. Reinstall the software if necessary.
- Check Device Manager in Windows to see if the device is recognized or has any error indicators.

- **Software Download Issues (Damaged Archives):**
  - Ensure a stable internet connection during download.
  - Try downloading from the official XGecu website again.
  - Use a different browser or disable any download managers that might interfere.
  - If issues persist, contact Aideepen customer support for an alternative download source.

- **Chip Not Recognized or Programming Fails:**
  - Confirm the chip is inserted correctly into the ZIF socket or adapter, with the correct orientation.
  - Ensure the correct chip model is selected in the software.
  - Check for bent pins on the chip or adapter.
  - Verify the chip is supported by the T48 Programmer and the current software version.
  - Perform a self-test on the programmer to check its functionality.

8. Specifications

Feature	Detail
Model Number	T48
Socket Type	40-pin Industrial ZIF Socket (Pluggable/Replaceable)
Supported OS	Windows XP, 2003, 2008, Vista, Win7, WIN8, WIN10, WIN11
Interface	USB 2.0 HS (480MHz)
Controller	TL866 3rd generation 32-bit 120MHz Controller
Supported Chip Types	SPI NAND, EMMC, EMCP, FLASH (27/28/29/39/49/50), Serial (24/25/26/35/45/93/95), 74 Series Logic IC, MCU (51/AVR/PIC), GAL/PAL
ISP Channels	16 Channels
Dimensions (Approx.)	10.5 cm (Length) x 6.5 cm (Width) x 3.5 cm (Height)
Manufacturer	Aideepen



Image: The T48 Programmer with its approximate dimensions labeled: 10 cm length, 6.5 cm width, and 2.8 cm height, along with supported chip types.

9. Warranty and Support

Aideepen products typically come with a warranty. For specific warranty details and support, please refer to the information below:

- **Warranty Period:** Each product purchased from Aideepen includes a 24-month service period.
- **Replacements:** If there is any quality issue with your item within the warranty period, you may be eligible for a new replacement.
- **Customer Support:** For any questions, suggestions, or issues, please contact Aideepen customer support directly. Contact information can usually be found on the Aideepen store page or through the platform where the product was purchased.

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