ACEIRMC EZP2023

ACEIRMC EZP2023 USB Programmer Instruction Manual

Model: EZP2023 | Brand: ACEIRMC

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your ACEIRMC EZP2023 USB Programmer. The EZP2023 is a high-speed USB 2.0 programmer designed for reading, writing, and erasing various memory chips, including 25 SPI FLASH, 24 series EEPROM, 25 series EEPROM, 93 series EEPROM, and 95 series EEPROM. It is compatible with Windows operating systems from 2000 to Windows 10 and is suitable for programming BIOS chips in a wide range of electronic devices.

2. Product Overview

2.1 Key Features

- High-speed USB 2.0 interface (12Mbps).
- Fast read and write speeds, e.g., 3 seconds to read EN25T80, 9 seconds to write EN25T80.
- Automatic chip model detection (primarily for 25 series chips; 24/25/93/95 EEPROM may require manual selection).
- Automatic detection of chip placement.
- Automatic selection of chip supply voltage.
- Supports 25 SPI FLASH, 24 series EEPROM, 25 series EEPROM, 93 series EEPROM, and 95 series EEPROM memory chips.
- Compact design.
- Compatible with Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8, and Windows 10.
- Capable of programming BIOS chips for various devices including routers, LCDs, cars, DVDs, TVs, PCs, and hard drives.

2.2 Package Contents

The EZP2023 USB Programmer package typically includes the main programmer unit, a USB cable, a software CD, and a set of adapters for various chip types. The specific number of adapters may vary by package variant (e.g., +15 Adapter version).

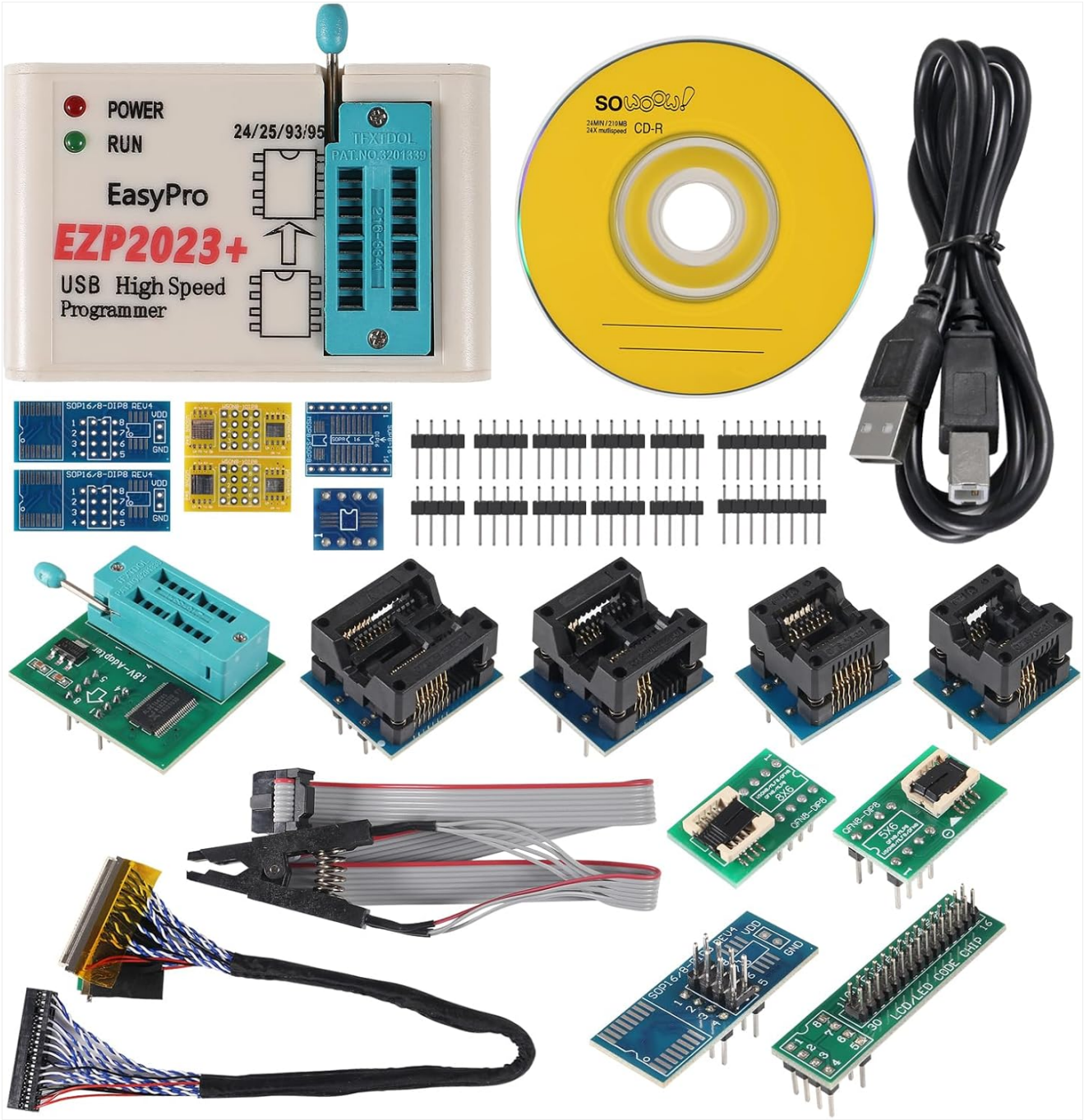

Figure 1: Complete EZP2023 USB Programmer kit with various adapters, USB cable, and software CD.

Figure 2: Contents of the EZP2023 USB Programmer package as received in its box.

3. Setup

3.1 System Requirements

- Operating System: Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10.
- Available USB 2.0 port.
- CD-ROM drive for software installation (if not downloading drivers/software online).

3.2 Software and Driver Installation

1. **Install Drivers:** Insert the provided software CD into your computer's CD-ROM drive. Locate and install the necessary USB drivers for the EZP2023 programmer. If a CD-ROM drive is not available, search for official drivers online from the manufacturer's support page.
2. **Install Programming Software:** Install the EZP2023 programming software from the CD.
3. **Connect Programmer:** Connect the EZP2023 programmer to your computer using the supplied USB cable. The "POWER" indicator on the programmer should illuminate.
4. **Launch Software:** Open the EZP2023 programming software. Upon first launch, the software may default to a non-English language. Navigate through the menus to find the language selection option (often a dropdown menu) and select "English" for easier operation.

Figure 3: Detail view of the EZP2023 programmer, highlighting the USB port for connection to a computer and the ZIF socket for chip insertion.

4. Operating Instructions

4.1 Preparing the Chip

- Identify the type of memory chip you intend to program (e.g., 25 SPI FLASH, 24 EEPROM).
- Select the appropriate adapter for your chip if it is not a direct fit for the ZIF socket on the programmer.
- Carefully insert the chip into the ZIF socket on the programmer or the selected adapter. Ensure correct orientation, aligning Pin 1 of the chip with the corresponding marker on the socket/adapter. Close the ZIF socket lever to secure the chip. The programmer will automatically detect if a chip is placed.

4.2 Using the Software

1. **Chip Detection:** In the EZP2023 software, click the "Detect" or "Auto" button. For 25 series chips, the software will attempt to automatically identify the chip model. For 24, 25, 93, and 95 series EEPROM chips, you may need to manually select the chip type from the software's chip list. The software also automatically selects the correct chip supply voltage.
2. **Load File:** To write data to a chip, load the desired firmware or data file into the software. The software primarily supports binary file formats. Intel Hex format may not function correctly.
3. **Read Chip:** To read data from a chip, click the "Read" button. The data will be displayed in the software interface and can be saved to a file.

4. **Erase Chip:** Before writing, it is often necessary to erase the chip. Click the "Erase" button to clear existing data.
5. **Write Chip:** After loading your file and erasing the chip, click the "Write" or "Program" button to transfer the data to the chip.
6. **Verify Chip:** After writing, it is recommended to verify the data. Click the "Verify" button to compare the data on the chip with the loaded file, ensuring a successful write operation.
7. **Offline Copy:** The EZP2023 supports offline copy functionality, allowing you to duplicate chips without a computer connection once the source chip data has been loaded into the programmer's internal memory. Refer to the software's specific instructions for this feature.

5. Specifications

Brand	ACEIRMC
Model	EZP2023
Interface	USB 2.0 (12Mbps)
Supported Chip Types	25 SPI FLASH, 24 EEPROM, 25 EEPROM, 93 EEPROM, 95 EEPROM series
Operating System Compatibility	Windows 2000, XP, Vista, 7, 8, 10
Automatic Features	Chip model detection (25 series), chip placement detection, voltage selection
Item Weight	7.4 ounces (approx.)
Package Dimensions	7.01 x 4.45 x 1.93 inches (approx.)

6. Maintenance

- Keep the programmer and adapters clean and free from dust and debris.
- Store the device in a dry environment, away from extreme temperatures and humidity.
- Handle chips and adapters carefully to prevent bending pins or damaging the ZIF socket.
- Ensure the ZIF socket lever is fully open before inserting or removing chips, and fully closed to secure them during operation.

7. Troubleshooting

7.1 Common Issues and Solutions

- **Programmer not detected by computer:**
  - Ensure USB cable is securely connected to both the programmer and the computer.
  - Verify that the USB drivers are correctly installed. Reinstall drivers if necessary.
  - Try a different USB port or computer.
- **Software interface is not in English:**
  - Upon launching the software, look for a dropdown menu or an icon that typically represents language settings (often a globe icon or a menu item with Chinese characters). Select "English" from the available options.
- **Chip not detected or incorrect chip ID:**
  - Ensure the chip is correctly inserted into the ZIF socket or adapter with proper orientation.
  - Verify that the ZIF socket lever is fully closed, securing the chip.

- For 24, 25, 93, and 95 series EEPROM chips, manual selection of the chip model in the software may be required.
- Clean chip pins if they appear dirty or corroded.

- **Error during read/write operation:**
  - Ensure the chip is properly powered and connected.
  - Verify that the correct chip model is selected in the software.
  - Attempt to erase the chip before writing.
  - Check the integrity of the data file you are attempting to write.
  - If using Intel Hex format, convert it to binary format as the software may have issues with Intel Hex.

8. Warranty and Support

For warranty information, technical support, or service inquiries regarding your ACEIRMC EZP2023 USB Programmer, please contact the manufacturer directly or refer to the official product page where you purchased the device. Keep your purchase receipt as proof of purchase.

Related Documents - EZP2023

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