

ICTOLTOL T76

ICTOLTOL T76 Programmer with 18 Adapters User Manual

Model: T76

1. INTRODUCTION

The ICTOLTOL T76 Programmer is a compact and powerful tool designed for efficient and reliable programming of various integrated circuits. Featuring a high-performance 32-bit RISC-V MCU + FPGA controller and a high-speed USB 3.0 Type-C interface, it offers a versatile solution for electronic engineers, repair technicians, and DIY enthusiasts. This manual provides essential information for the proper setup, operation, and maintenance of your T76 Programmer.

2. PRODUCT OVERVIEW

2.1 Key Features

- High-performance 32-bit RISC-V MCU + FPGA controller for efficient data processing.
- High-speed USB 3.0 Type-C interface for rapid data transfer.
- Support for a wide range of chip types including 26, 27, 28, 29, 37, 39, 49, 50 series parallel ROM, EPROM, EEPROM.
- Compatibility with 24, 25, 35, 45, 85, 93, 95 series serial EEPROM, P-NAND FLASH, and customizable options.
- Includes 18 adapters, many featuring gold-plated pins for enhanced contact and durability.
- Compact and portable design for convenience.

2.2 Package Contents

The standard package includes:

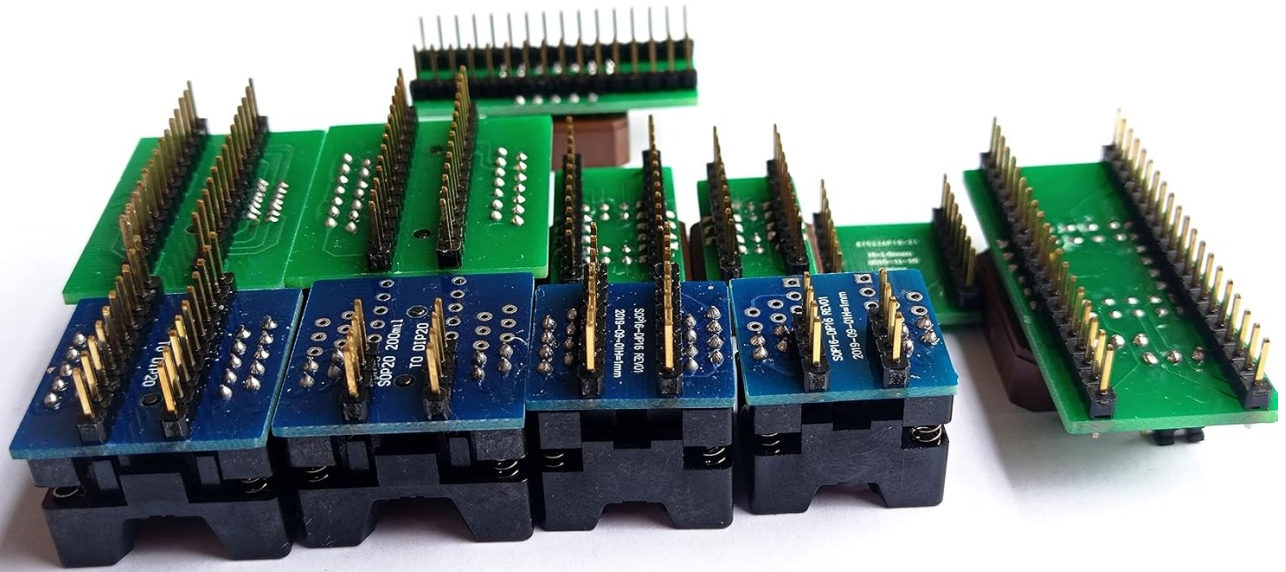
- 1 x ICTOLTOL T76 Programmer Unit
- 1 x USB Type-C Cable
- 1 x TSOP56 Adapter
- 1 x TSOP48 Adapter
- 1 x SOP44 Adapter

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- The image displays a variety of electronic components and tools. At the top left is a large, black, rectangular device labeled "XGecu PRO" and "SS-MODE". It features a central slot for a chip and is labeled "SUPER SPEED PROGRAMMER". Below it, a green circuit board is shown with a large integrated circuit (IC) and various pins. To the right of this board are several other green and blue boards, some with ICs and others with pins. Below the main programmer, there are more green and blue boards, some with ICs and others with pins. At the bottom of the image, there is a black USB cable, a pair of pliers, and a small black device.



Figure 2: The ICTOLTOL T76 Programmer unit, showcasing its compact design and USB 3.0 Type-C port.

**All adapters are gold-plated pin
better than sliver-plated pin**



long life & good contact

Figure 3: Close-up view of gold-plated pins on the adapters, highlighting their quality for reliable contact.

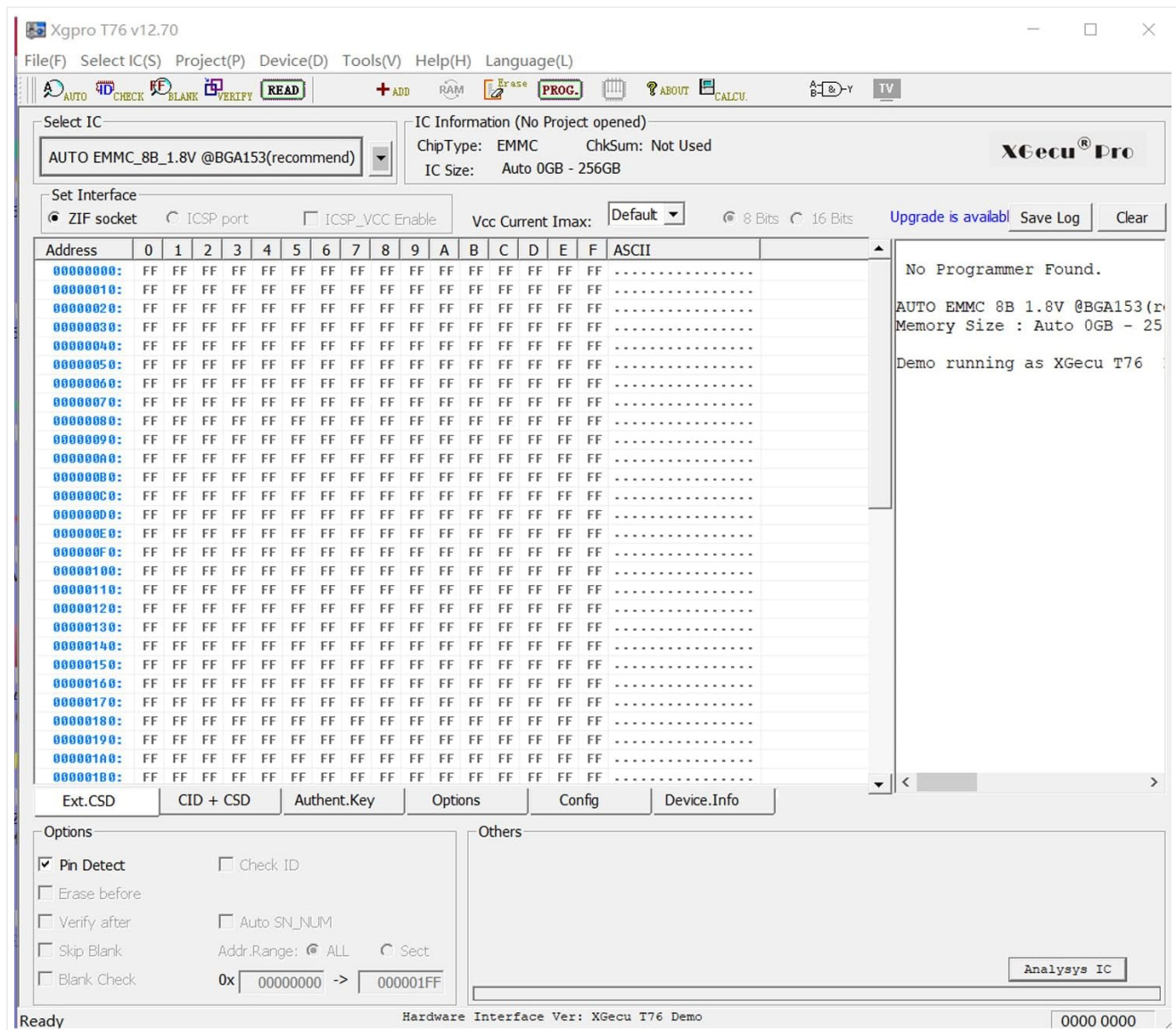


Figure 4: Comparison of the 40cm clip length provided with the T76 Programmer versus shorter alternatives, emphasizing convenience.

3. SETUP

1. **Software Installation:** Download and install the latest XGecu T76 programming software from the official ICTOLTOL support website or the provided installation media. Follow the on-screen instructions to complete the installation, including any necessary drivers.
2. **Connect Programmer:** Connect the T76 Programmer to your computer using the supplied USB Type-C cable. Ensure a secure connection. The programmer should be recognized by your operating system.
3. **Power On:** The programmer typically draws power from the USB connection. Verify the power indicator on the device (if available) illuminates.

**More convenient to use
our clip length is 40 cm**



Figure 5: Screenshot of the XGecu T76 programming software interface.

4. OPERATING INSTRUCTIONS

Before operating, ensure the T76 Programmer is correctly set up and the software is running.

1. **Select Chip:** In the XGecu T76 software, navigate to the 'Select IC' menu and choose the exact model of the chip you intend to program. Refer to the chip's datasheet for accurate identification.
2. **Install Adapter:** Select the appropriate adapter for your chip package. Carefully insert the adapter into the ZIF socket on the T76 Programmer. Ensure it is seated correctly and securely.
3. **Insert Chip:** Open the ZIF socket lever on the adapter. Carefully insert the chip into the adapter, paying close attention to the pin 1 indicator (notch or dot) to ensure correct orientation. Close the ZIF socket lever to secure the chip.
4. **Perform Operation:** Use the software interface to perform desired operations such as:
 - **Read:** To read data from the chip.
 - **Erase:** To clear existing data on the chip (if supported).
 - **Program/Write:** To write new data to the chip.
 - **Verify:** To compare the programmed data with the source data for accuracy.
5. **Remove Chip:** After the operation is complete and verified, open the ZIF socket lever and carefully remove the chip from the adapter.

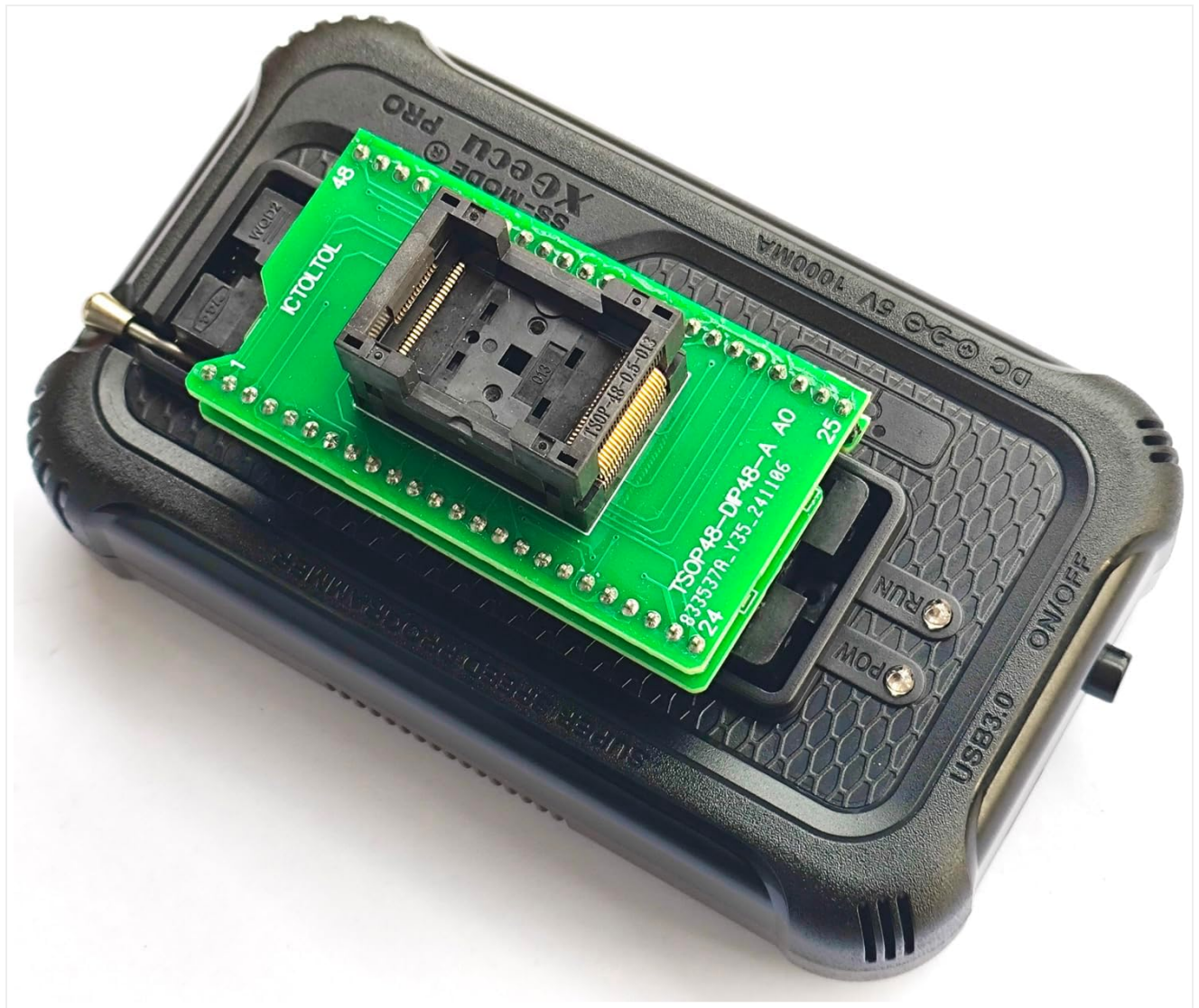


Figure 6: T76 Programmer with a TSOP48 adapter installed.



Figure 7: T76 Programmer with a TSOP56 adapter connected.

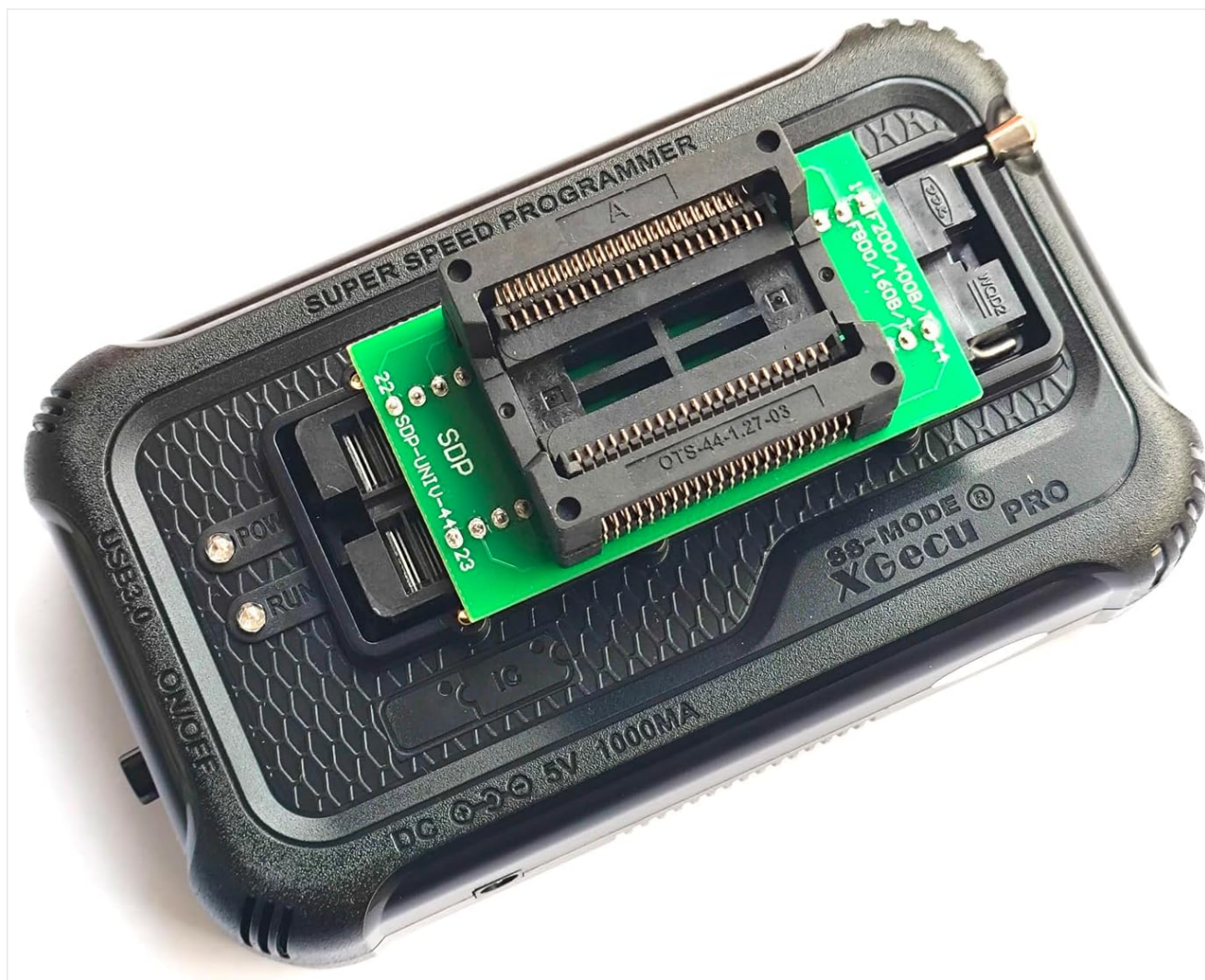


Figure 8: T76 Programmer with an SDP adapter.

5. MAINTENANCE

- **Cleaning:** Keep the programmer and adapters clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid liquid cleaners.
- **Handling:** Handle chips and adapters with care to prevent bending pins or damaging the ZIF sockets.
- **Storage:** Store the programmer and adapters in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Software Updates:** Regularly check for software and firmware updates from the ICTOLTOL website to ensure optimal performance and support for new chips.

6. TROUBLESHOOTING

- **Programmer Not Detected:**
 - Ensure the USB Type-C cable is securely connected to both the programmer and the computer.
 - Try a different USB port or cable.
 - Verify that the necessary drivers are installed correctly. Check Device Manager on Windows for any unrecognized devices.
- **Chip Not Recognized or Programming Errors:**
 - Double-check that the correct chip model is selected in the software.
 - Ensure the chip is inserted into the adapter with the correct orientation (pin 1 alignment).
 - Verify that the adapter is securely seated in the programmer's ZIF socket.

- Clean the pins of the chip and adapter if there is any visible residue.
- Confirm that the chip is supported by the T76 Programmer and the current software version.
- **Software Issues:**
 - Restart the software and/or your computer.
 - Reinstall the software if problems persist.
 - Check for the latest software updates.

7. SPECIFICATIONS

Brand	ICTOLTOL
Model	T76
Interface	USB 3.0 Type-C
Controller	32-bit RISC-V MCU + FPGA
Supported Chip Types	Parallel ROM, EPROM, EEPROM (26, 27, 28, 29, 37, 39, 49, 50 series); Serial EEPROM (24, 25, 35, 45, 85, 93, 95 series); P-NAND FLASH
Package Dimensions	8.5 x 5.67 x 2.44 inches (approximate)
Item Weight	1.14 pounds (approximate)
Material (selected components)	Copper

8. WARRANTY AND SUPPORT

For warranty information, technical assistance, or further inquiries regarding your ICTOLTOL T76 Programmer, please contact ICTOLTOL customer service. You can typically find support contact details through your purchase platform or on the official ICTOLTOL website. Please have your product model and purchase details ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question