

MICETEK

Embedded system development tools manufacturer

MCP-101V
(VL150/151/152/152C/154)
Programmer User Manual

MICETEK International Inc.

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Catalogue

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*Complete manual will be provided when ordering.

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Chapter 1. Overview

MCP-101 is a multi-functional MCU programmer. MCP-101V is the one programmer which support **VL150/VL151/VL152/VL152C/VL154** IC of VIA. It has two ways: offline and online. If offline, user doesn't have to connect it with PC. Only load image file into device one time then it can work alone afterward. If online, user can connect it with PC. Then control loading and programming by PC. MCP-101 is not only simplifies peripheral but make operation much easily and quickly.

1.1 MCP-101 Programmer Type

(1). MCP-101S (Type with side cable)

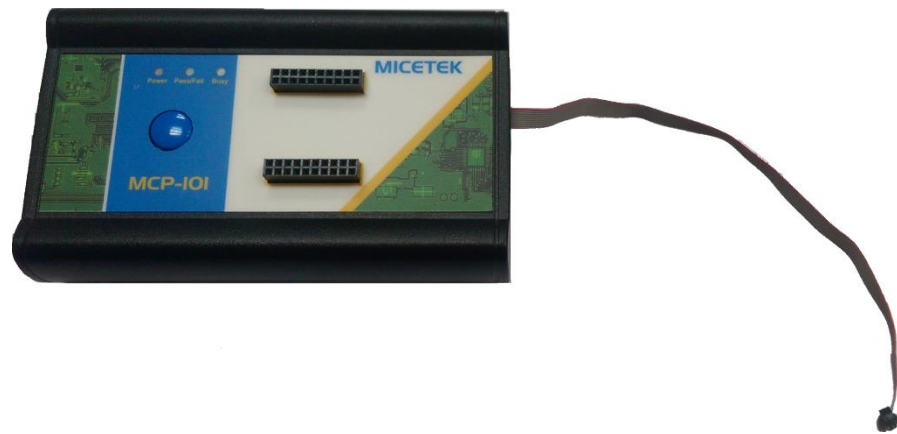


Figure 1 View of MCP-101S Programmer

(2) MCP-101V (For VL150/ VL151/VL152/VL152C/VL154 design, needs related DFN or USB adapter.)



Figure 2 View of MCP-101V Programmer

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1.2 MCP-101V Hardware Features

- Internal SPI-flash memory preserve program.
- USB interface transfer data with PC.
- Multi LED signals display.
- Offline work. Standalone programmer, work without PC.
- One key programmed function.
- PC online programmed and verify support.
- Firmware updating.
- Support auto-programming by automata.

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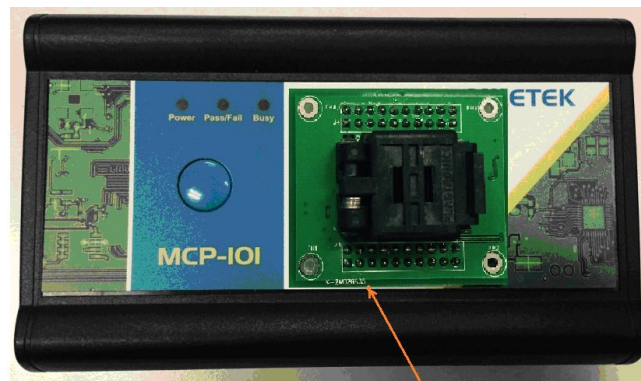
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Chapter 2. Programmed Steps

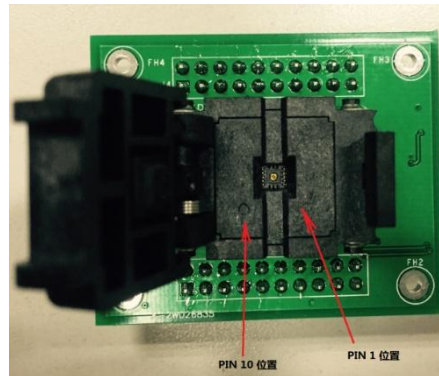
2.1 Install the adapter to programmer

I. DFN Adapter (DFN8-Adapter,DFN10-Adapter)

Turn adapter with word side up and put on MCP-101. Open the socket and put VL150 chip. (There is a circle sign on 10 pins of adapter).



文字朝上



PIN 10 位置

PIN 1 位置

II. Install USB-Adapter



90度USB插座在左边

180度USB朝右

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MCP-101 will verify USB cable's direction automatically, choose correct CC1/CC2 pin and judge chips type to programmed chip.

III. Install LCD-Adapter



MCP-101 will verify USB cable's direction automatically, choose correct CC1/CC2 pin and judge chips type to programmed chip. Then display read/program result on LCD screen.



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III. Install PT-Adapter with testing function



For CC signals conduct at both ends of USB cable, user can put either port to program port or test port; however; for CC signals only conduct at one end of USB cable, user has to put CC signal side to program port and another put into test port.

This adapter will exam USB cable's direction automatically and choose correct CC1/CC2 pin to programmed chip. After VL150/VL151/VL152/VL152C/VL154 chips programming procedure was finished, it will run on/off pin test automatically and notify user if cable work well. See P12 for details.

IV. Multi ports programming M5_adapter

User can lead to 5 groups of CC1 / CC2 / GND to the target board or connect 5 cables to adapter directly. MCP-101 will check 5 USB cable's direction and type of chip automatically and choose correct CC1/CC2 pin to programmed chips one by one.

