



# Holtek Flash MCU Quick Start Guide

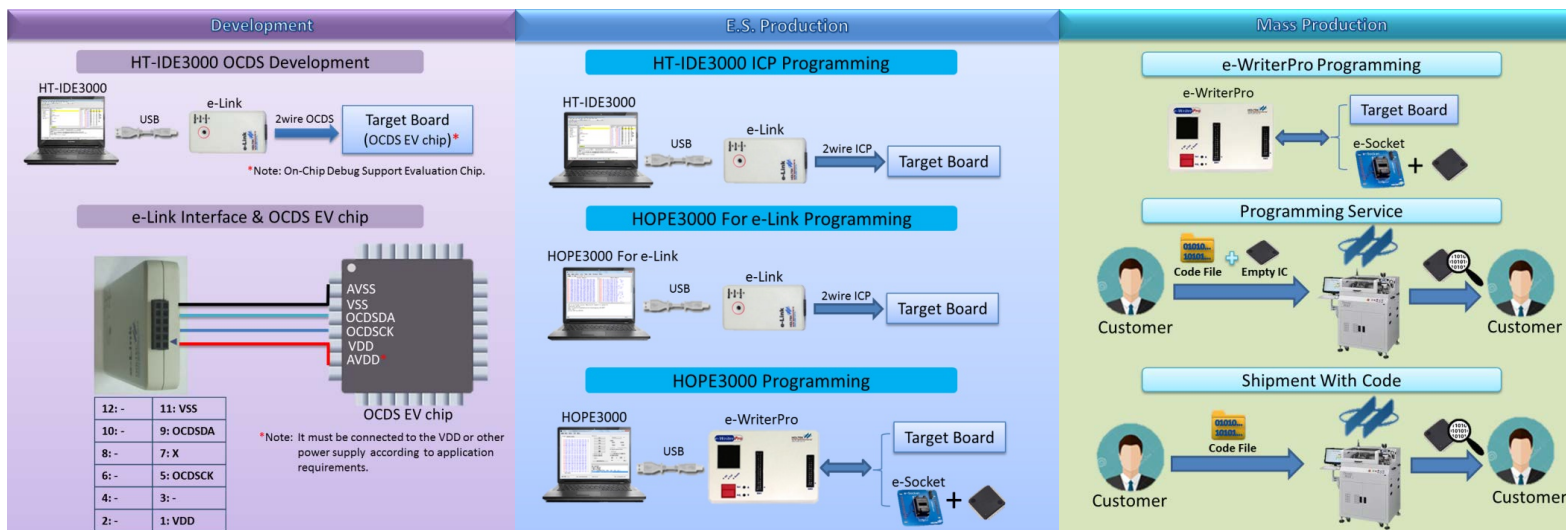
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# 1. Tool Introduction



## 2. Tool Description

### 2.1 Software

#### **HT-IDE3000**

The HT-IDE3000 is a simulation software specially developed for HOLTEK 8-bit MCUs. When used together with OCDS EV chip, it will implement a series of operations such as single step, full speed, breakpoint setting, RAM monitor, etc. Refer to the HT-IDE3000 User's Guide for more information.

<http://www.holtek.com.tw/documents/10179/106680/HT-IDE3000UsersGuide%281252%29.pdf?0113>

#### **HOPE3000**

The HOPE3000 is a programming software specially designed for HOLTEK 8-bit MCUs. The software includes erase, blank check, program, verify, etc. Refer to the e-Writer Series Writer User's Guide for more information.

<http://www.holtek.com.tw/documents/10179/106680/e-Writer+Series+Writer+User%27s+Guide+%28English%29.pdf>

#### **HOPE3000 For e-Link**

The HOPE3000 For e-Link is a programming software specially designed for HOLTEK 8-bit MCUs. The software includes erase, blank check, program, verify, etc. Refer to the Holtek e-Link ICP User's Guide for more information.

[http://www.holtek.com.tw/documents/10179/106680/e-Link+ICP+User%27s+Guide\\_ENv100--20150513.pdf](http://www.holtek.com.tw/documents/10179/106680/e-Link+ICP+User%27s+Guide_ENv100--20150513.pdf)

## 2.2 Hardware

### e-Link OCDS Emulation

The e-Link with HT-IDE3000 software can implement OCDS emulations. Only 4 pins are needed to connect with the EV chip (IC with OCDS interface), which are VDD, GND, OCDSCK and OCSDA. The pin assignment is shown in the figure 1. If the AVDD and AVSS pins are existed in the MCU, the AVDD pin must be connected together with VDD or other power supply, and the AVSS pin must be connected together with VSS.



12: -	11: GND
10: -	9: OCSDA
8: -	7: X
6: -	5: OCDSCK
4: -	3: -
2: -	1: VDD

Fig.1 e-Link OCDS PIN

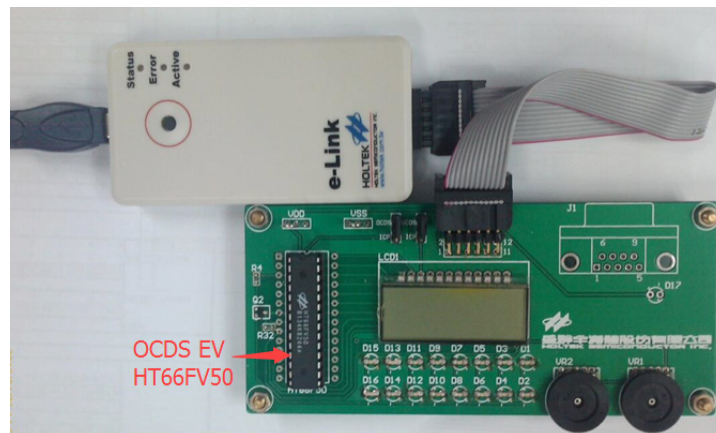


Fig.2 e-Link OCDS Emulation

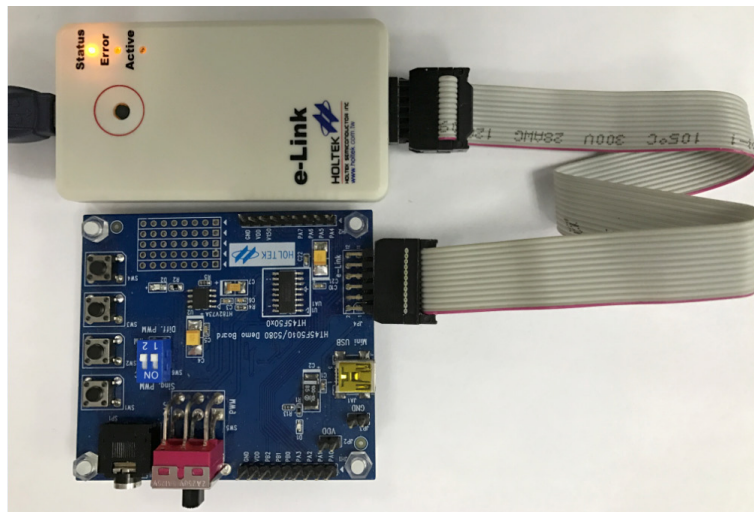
**e-Link ICP Programming**

The e-Link together with the HOPE3000 for e-Link software can implement programming MCUs, which is suitable for engineering samples programming. Only 4 pins are needed to connect with the MCU, which are VDD, GND, ICPCCK and ICPDA. The pin assignment is shown in the figure 3. If the AVDD and AVSS pins are existed in the MCU, the AVDD pin must be connected together with VDD or other power supply, and the AVSS pin must be connected together with VSS.



12: -	11: GND
10: -	9: ICP DA
8: -	7: X
6: -	5: ICPCCK
4: -	3: -
2: -	1: VDD

**Fig.3 e-Link ICP PIN**



**Fig.4 e-Link ICP Programming Connection**

### e-WriterPro Programming

The e-WriterPro together with the HOPE3000 software can support On-Line Programming, Off-Line Programming and other kinds of programming methods, which is suitable for engineering sample programming and mass productions. Select proper download mode according to the actual MCU package type and programming environment requirements, as shown in the following figure.

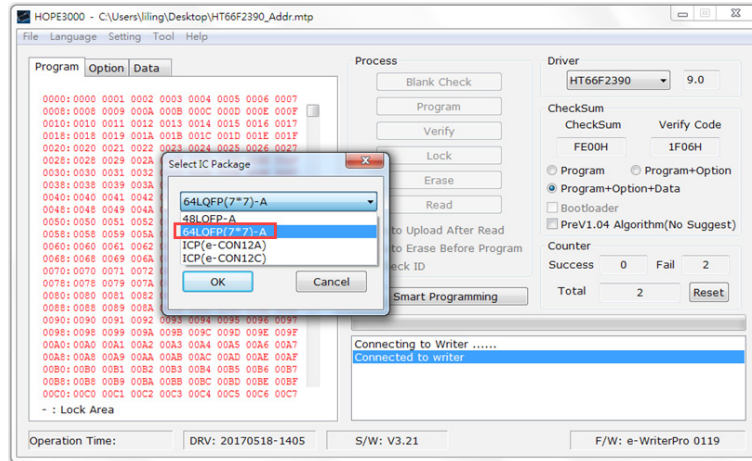


Fig.5 64-LQFP Programming Method (Using an e-Socket)

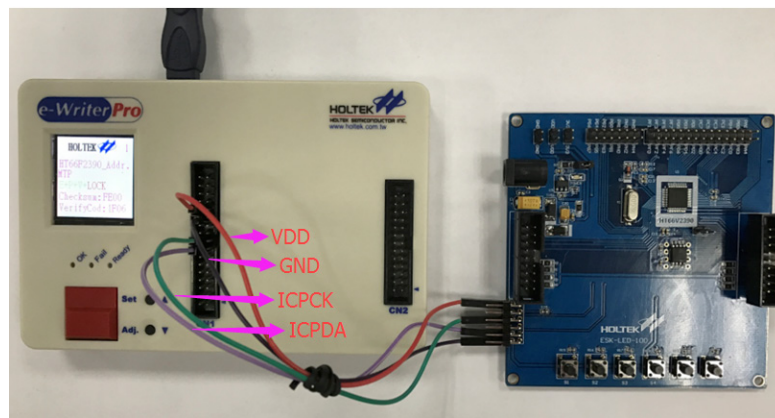
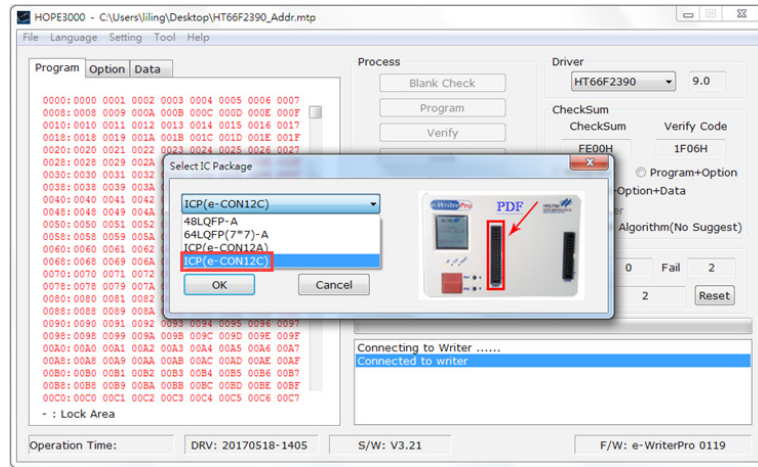


Fig.6 ICP (e-CON12C) Programming Connection



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