e-Link8 Lite

Quick Start Guide

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www.bestmodulescorp.com

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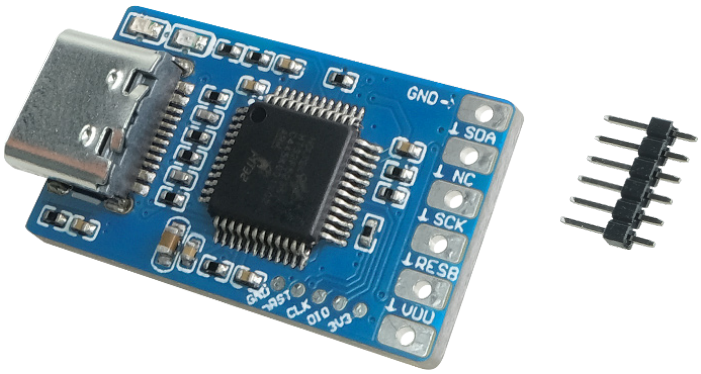
Introduction

The e-Link8 Lite is a development tool that combines emulation and programming functions. The e-Link8 Lite is a lite version of the e-LinkPro2, supporting the emulation and programming functions for all HT8 MCUs. The product supports the HT-IDE3000 programming and emulation software and the HOPE3000 For e-Link programming software. The programming and emulation functions can be carried out on the software by connecting to a PC via USB Type-C. This product features a small design and simplified hardware, making it more cost-effective for users to purchase.

This quick start guide is intended to help users get familiar with the usage of the Holtek e-Link8 Lite. The guide includes the e-Link8 Lite hardware introduction, emulation, and programming applications.



Features

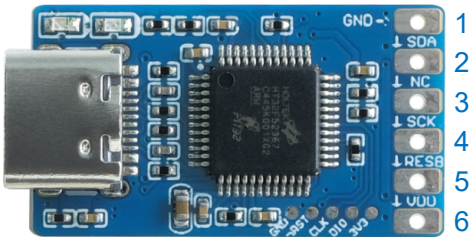
- Power supply methods
  - Internal power supply: 3.3V/5V, configured by HT-IDE3000 or HOPE3000 For e-Link
  - External power supply (support emulation method): configured by HT-IDE3000
- e-Link8 Lite is the lite version of e-LinkPro2, supporting emulation and programming functions for HT8 MCUs
- Related software:
  - Development software: HT-IDE3000 (≥V8.2.6), supporting program, emulation and programming
  - Programming software: HOPE3000 For e-Link (≥V1.26), supporting ICP programming
- Supported MCU types: all HT8 MCUs
  - Programming function: HT8 flash
  - Emulation function: HT8 flash, OTP

Note: the following MCUs cannot be programmed by e-Link8 Lite:

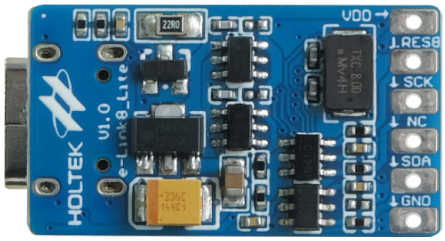
- The OTP MCU series
- The BH67F21x2 series
- MCUs with an integrated temperature module that require e-Link for temperature calibration
- The HT68FV02x series Voice MCUs(unable to programming Voice Flash Memory)

- USB type: Type-C
- USB driver: driver-free, plug-and-use
- Interface: 6-pin (VDD, RESB, ICPCK/OCDSCK, NC, ICPDA/OCDSDA, GND)
- Size: 28mm×15mm×5.2mm

Pin Description



Top View



Bottom View

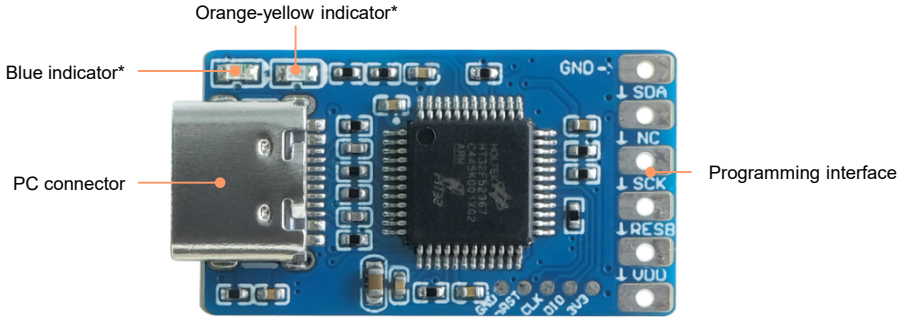
OCDS:

Pins	Function	Type	Description
1	GND	PWR	Logical negative power supply
2	OCDSDA	I/O	OCDS emulation and programming data
3	NC	—	—
4	OCDSCK	I/O	OCDS emulation and programming clock
5	Reserved	—	Reserved
6	VDD	PWR	Logical positive power supply

ICP:

Pins	Function	Type	Description
1	GND	PWR	Logical negative power supply
2	ICPDA	I/O	ICP programming data pin
3	NC	—	—
4	ICPCK	I/O	ICP programming clock pin
5	RESB	O	Reset the target MCU (can be NC)
6	VDD	PWR	Logical positive power supply

Hardware Description



PCBA Front View

- Orange-yellow indicator light:
  - Connect to HT-IDE3000:

    Constant off: not powered for Target Board

    Constant on: powered for Target Board
  - Connect HOPE3000 For e-Link:

    Flashing: Programming OK (or power-on initialization status)

    Constant on: means execute “Tools” → “Power-Up” functions

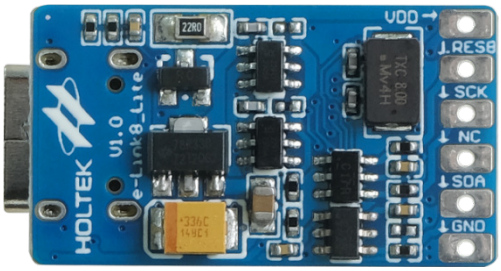
- Blue indicator
  - Connect to HT-IDE3000:

    Slow flashing: Idle, indicating “ready”, flashing every second

    Fast flashing: Busy, the more tasks, the more frequent blinks
  - Connect to HOPE3000 For e-Link:

    Constant off: the writer is ready

    Flashing: the writer is busy



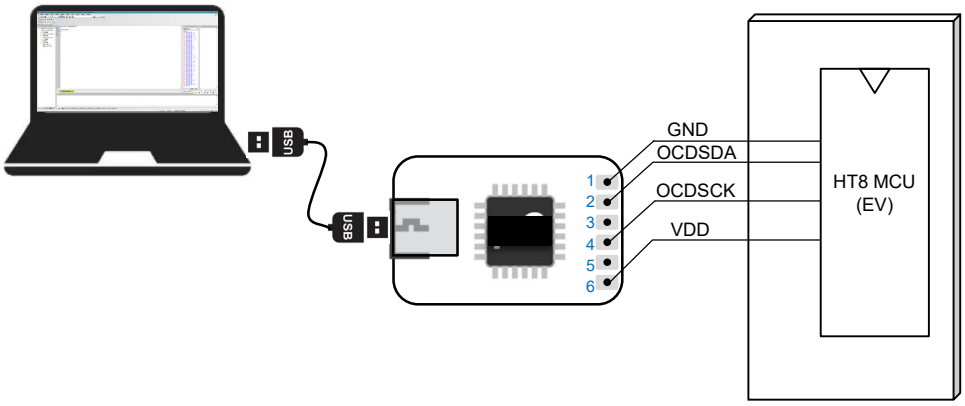
PCBA Back View

Application Description

HT-IDE3000 Emulation Applications

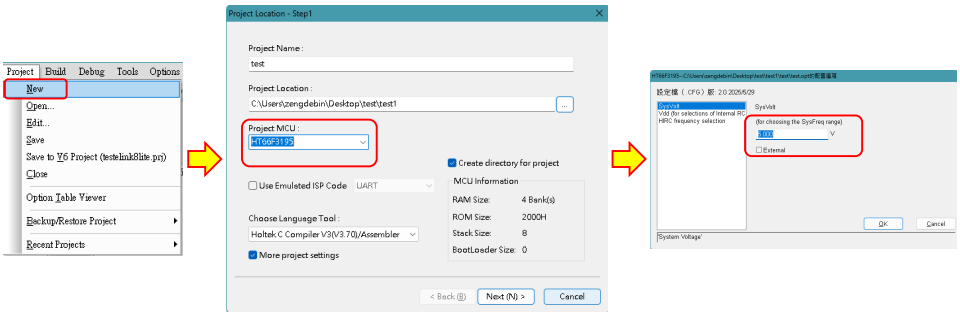
HT-IDE3000 is Holtek’s integrated development environment for developing and emulating HT8 MCUs.

Step1. According to the figure below, use USB Type-C for connection and use Dupont wire to connect to the HT8 MCU.

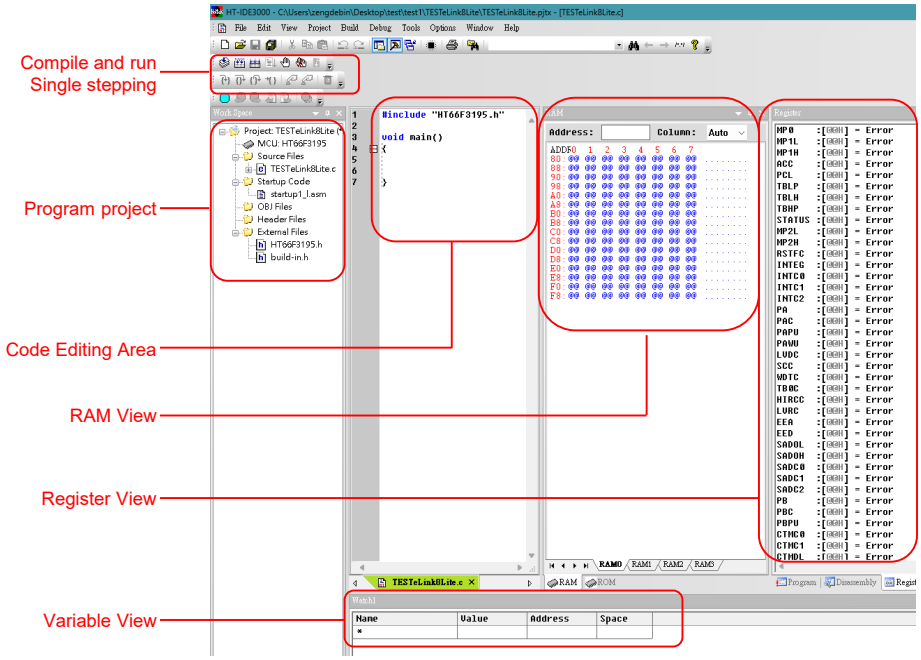


Emulation Connection Description

Step2. Download HT-IDE3000 V8.2.6: https://www.holtek.com/page/ice_list/i_8 open after installation, the following figure demonstrates the program project for establishing HT66F3195.



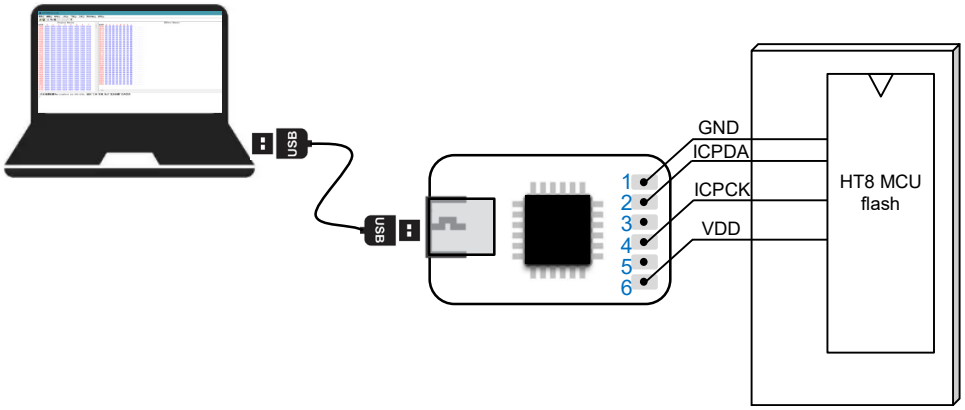
Step3. HT-IDE3000 interface brife introduction



HOPE3000 For e-Link

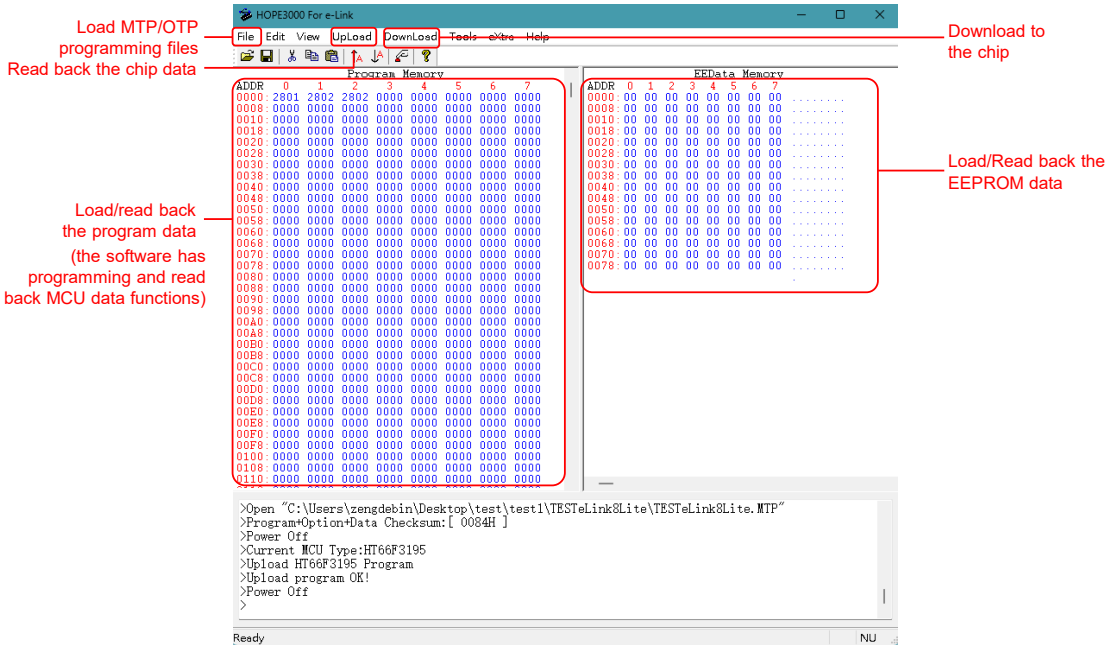
HOPE3000 For e-Link is a programming software developed by Holtek, which is used together with e-Link to program HT8 MCU.

Step1. According to the figure below, use USB Type-C for connection and use Dupont wire to connect to the HT8 MCU.

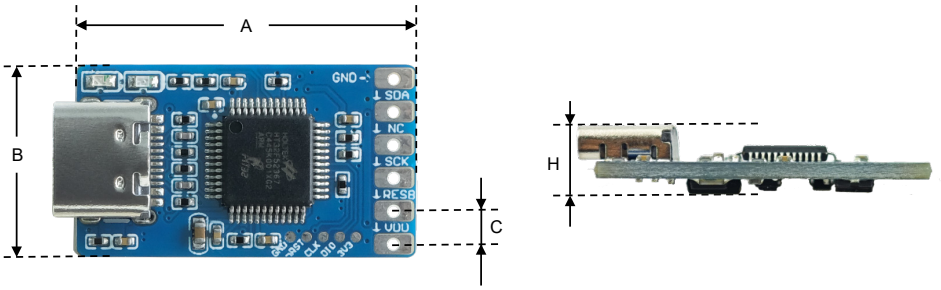


Programming Connection Description

Step3. HT-IDE3000 interface brief introduction and programming success prompt.



Dimensions



Dimension Information

Unit / Symbol	mm	inch
A	28	1.102
B	15	0.590
C	2.54	0.1
H	5.2	0.204

Dimension List

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