



HT8 Easy DEV User's Guide

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1. General Description

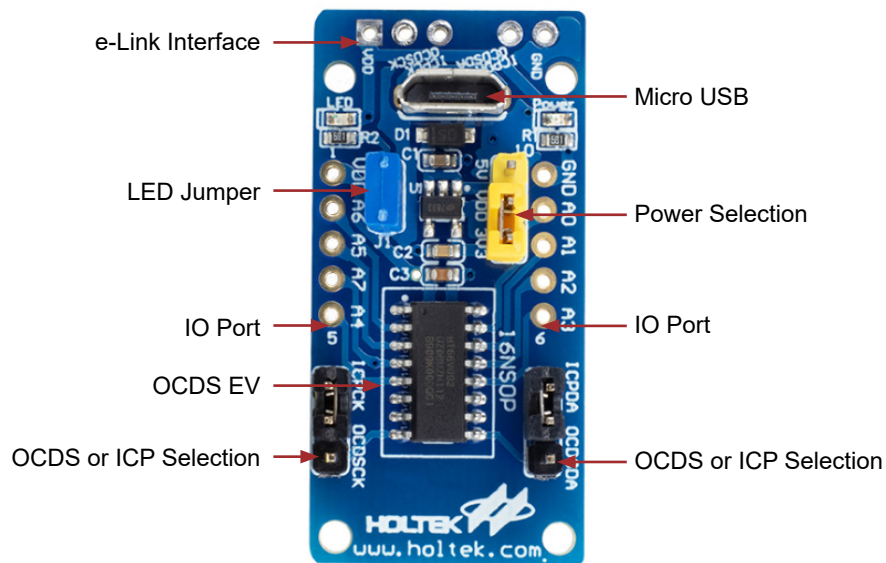
1.1 Main Features

- Directly connects to the e-Link without need for wiring
- Locates on the e-Socket (ESKT40DIPC) for programming using the e-WriterPro
- Three power supply options: 5V(USB)/3.3V/VDD(e-Link)
- Preload breathing light (LED) DEMO CODE, providing board status at a glance
- Compact board – a PAD hole distance multiple of 100mil, allows for convenient usage

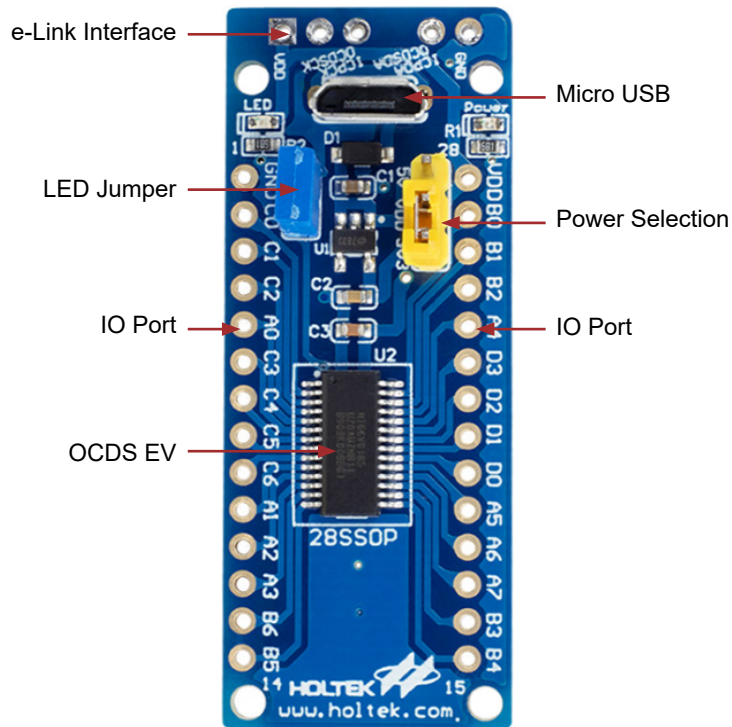
1.2 Hardware Description

The following illustrations show whether or not OCDSCK and OCSDA are pin-shared with ICPCK and ICPDA respectively.

- When OCDSCK and OCSDA are not pin-shared with the ICPCK and ICPDA:



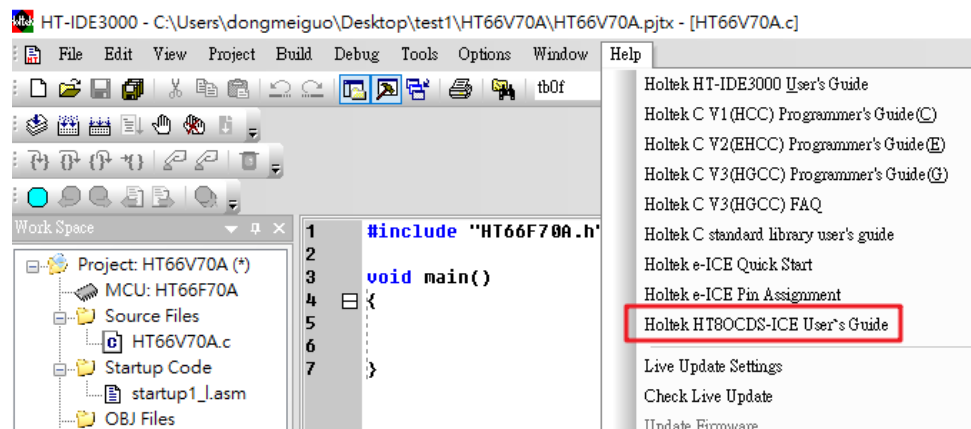
- When OCDSCK and OCSDSA are pin-shared with the ICPCCK and ICPCDA:



2. e-link On-Chip Debug Support – OCDS

2.1 Software Introduction

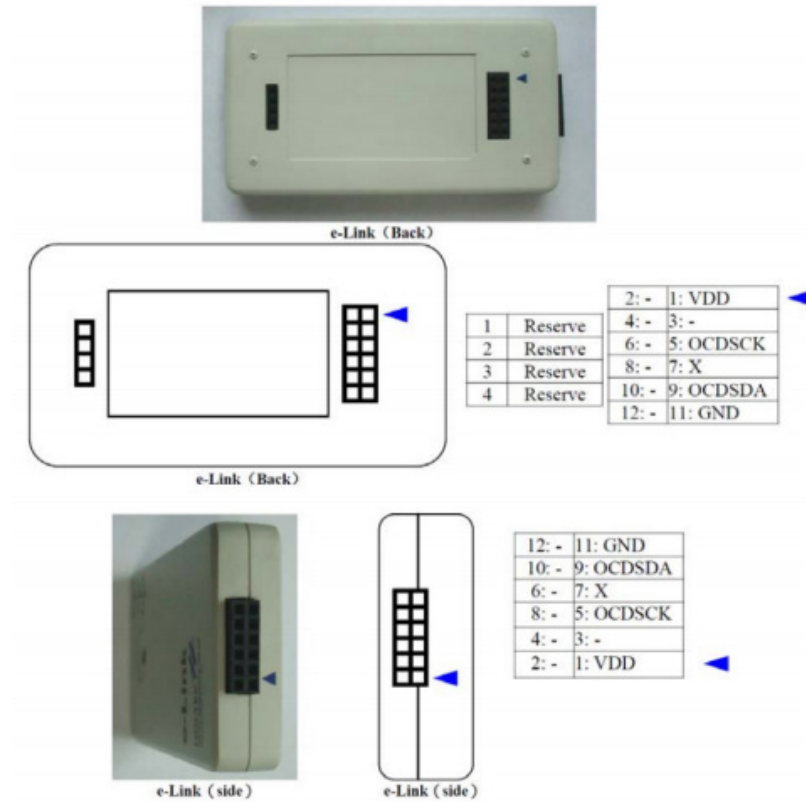
- (1) Download the software from the Holtek official website to obtain relevant information.
Download path: MCU Development Tools — Software — ICE Software — HT-IDE3000
- (2) After the HT-IDE3000 installation has completed, the Holtek HT8OCDS-ICE User's Guide can be accessed from its menu.



- (3) Update the e-Link to the e-Link OCDS mode using the HT-IDE3000 software.

2.2 Hardware Introduction

(1) e-Link HT8OCDS Pin Assignment

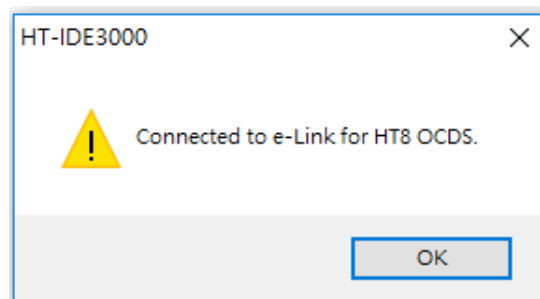


(2) Hardware Connection Schematic Diagram - using the DEV16NSOP002 as an example

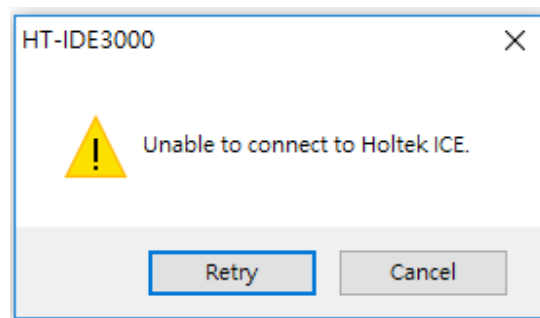


Connect to the USB port for programming using the HT-IDE3000. If problems are encountered, refer to the HT-IDE3000 User's Guide.

- If the connection is successful, the following message will pop up.



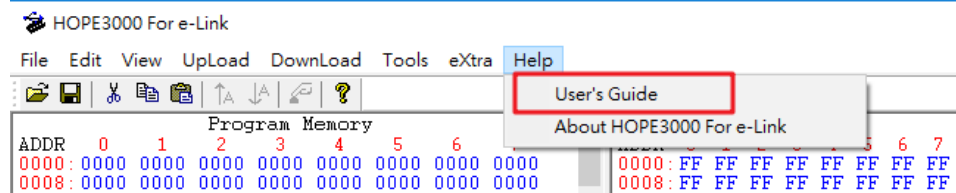
- If the connection fails or there is no connection the following message will pop up.



3. e-Link In Circuit Programming Function – ICP

3.1 Software Introduction

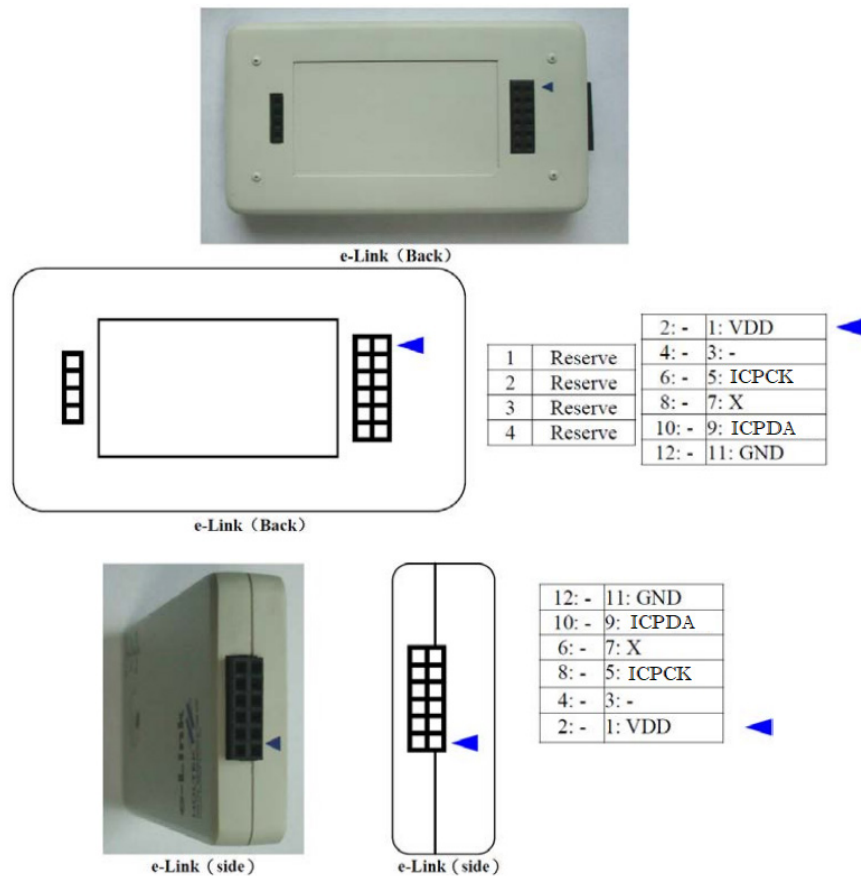
- (1) Download the software from the Holtek official website to obtain relevant information.
 Download path: MCU Development Tools — Software — Programmer Software — HOPE3000 for e-Link.
- (2) After the HOPE3000 e-Link installation has completed the User's Guide can be accessed from the menu.



- (3) Update the e-Link to the e-Link ICP mode using the HOPE3000 e-Link software.

3.2 Hardware Introduction

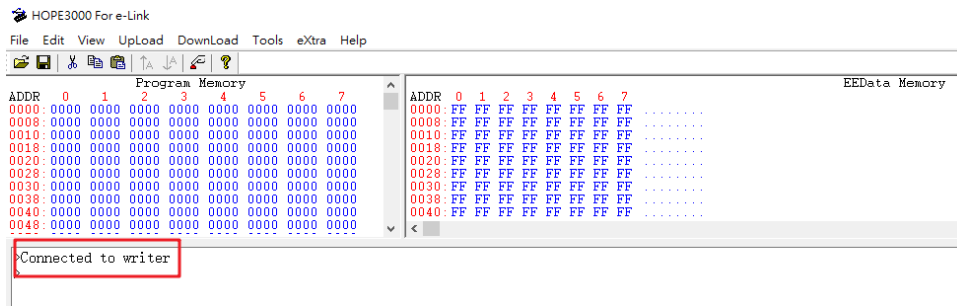
- (1) e-Link ICP Pin Assignment



(2) Hardware Connection Schematic Diagram – uses the DEV16NSOP002 as an example



The e-Link is connected to the USB port for programming. If the connection is successful, a prompt will be generated informing the user that the writer is connected.. If problems are encountered, refer to the HOPE3000 e-Link User's Guide.



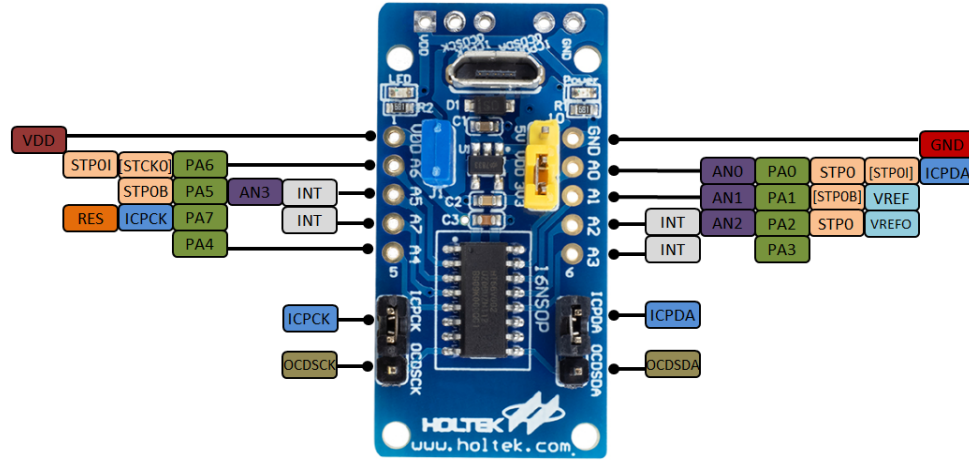
4. Pin Assignment and Schematic

No.	Part No.	OCDS EV	VDD	VSS	OCSDSA	OCDSCK	ICPDA	ICPCK	LED			
1	DEV16NSOP025	HT66V0025	1	16	9	8	15	PA0	4	PA7	3	PA5
2	DEV16NSOP002	HT66V002										
No.	Part No.	OCDS EV	VDD	VSS	OCSDSA/ICPDA	OCDSCK/ICPCK	LED					
3	DEV20NSOP019	HT66V019	20	1	5	PA0	7	PA2	13	PA7		
4	DEV20SSOP004	HT66V004	20	1	5	PA0	7	PA2	13	PA7		
5	DEV24SSOP175	HT66V0175	24	1	5	PA0	9	PA2	15	PA7		
6	DEV28SSOP185	HT66V0185	28	1	5	PA0	11	PA2	17	PA7		
7	DEV28SSOP195	HT66V0195										

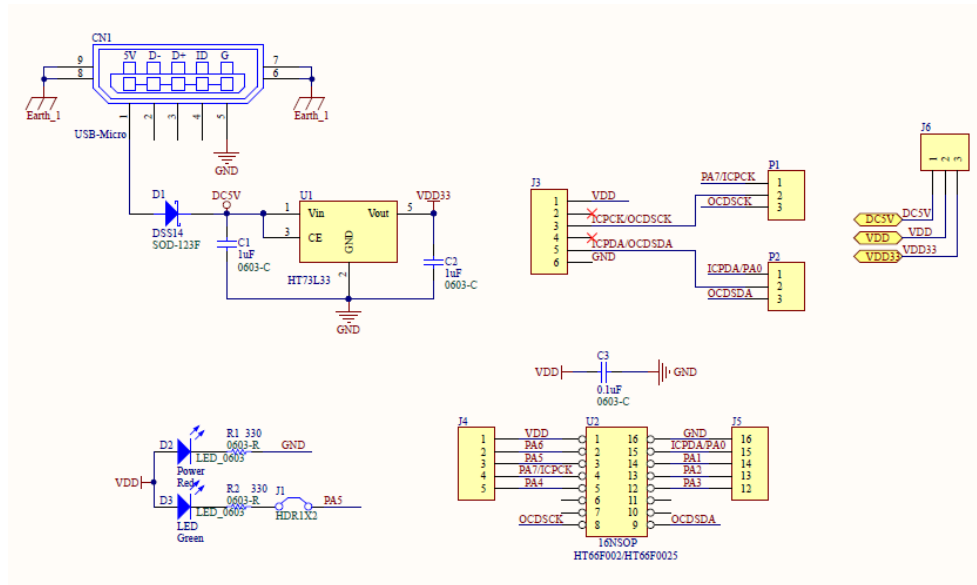
PCB Difference Comparison Table

4.1 DEV16NSOP25

- Pin Assignment – size: 20mm×40mm

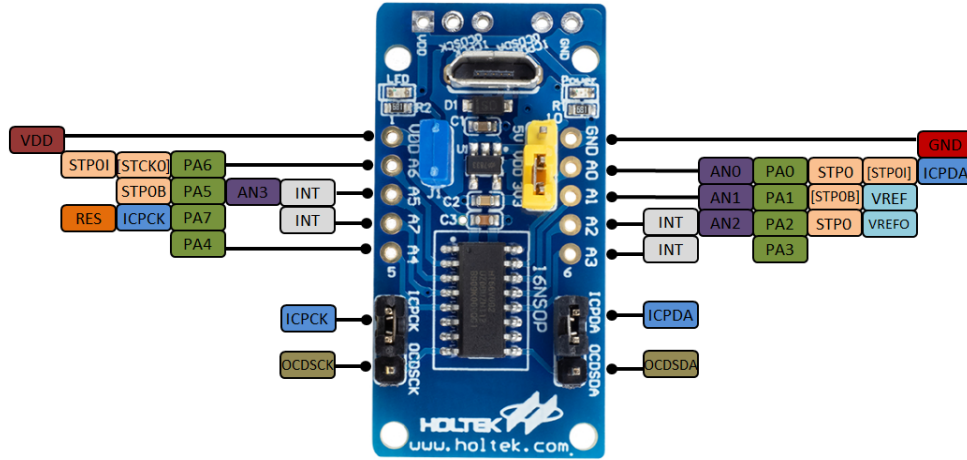


- Schematic

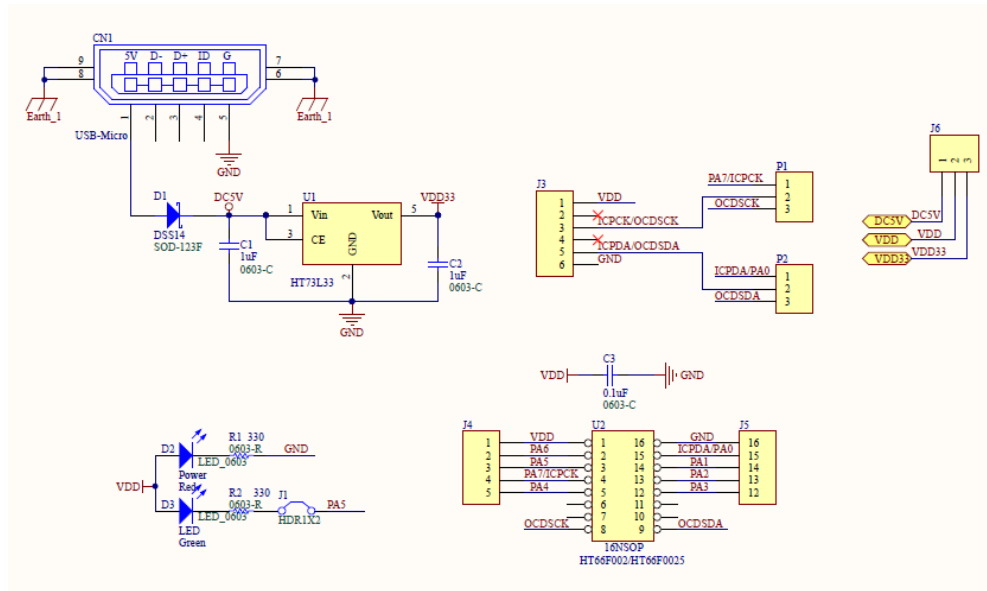


4.2 DEV16NSOP002

- Pin Assignment - size: 20mm×40mm

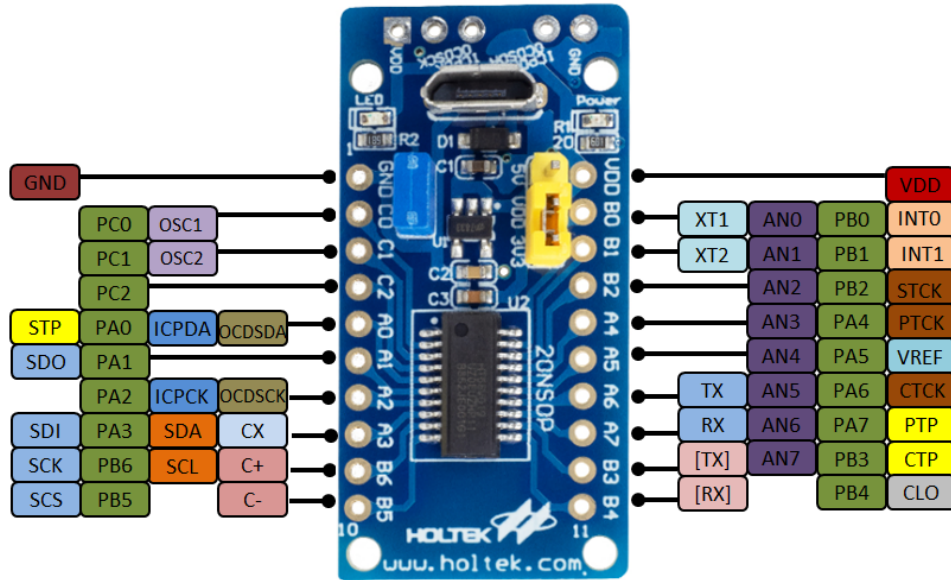


- Schematic

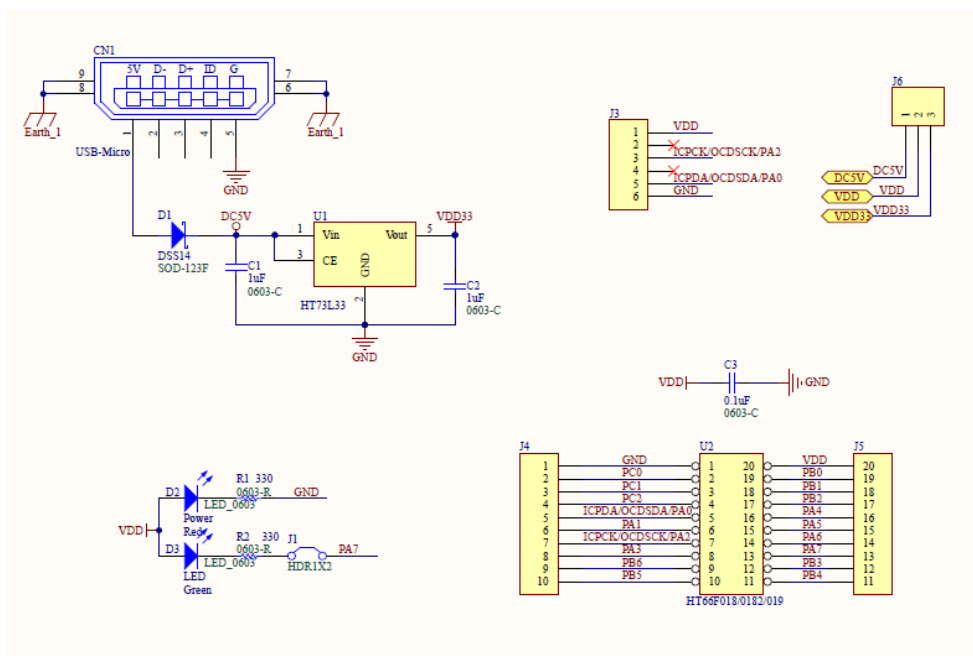


4.3 DEV20NSOP19

- Pin Assignment – size: 20mm×40mm

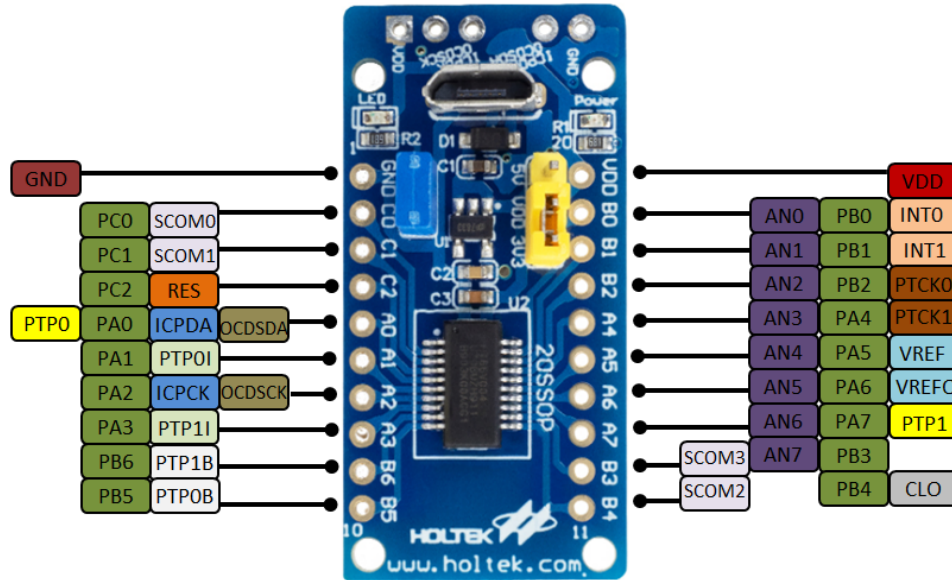


- Schematic

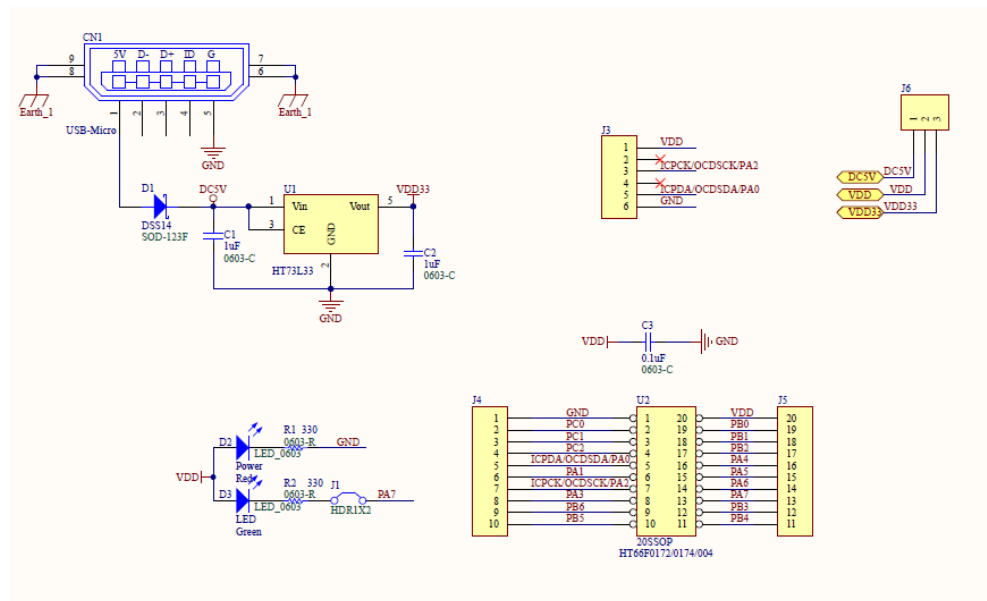


4.4 DEV20SSOP004

- Pin Assignment – size: 20mm×40mm

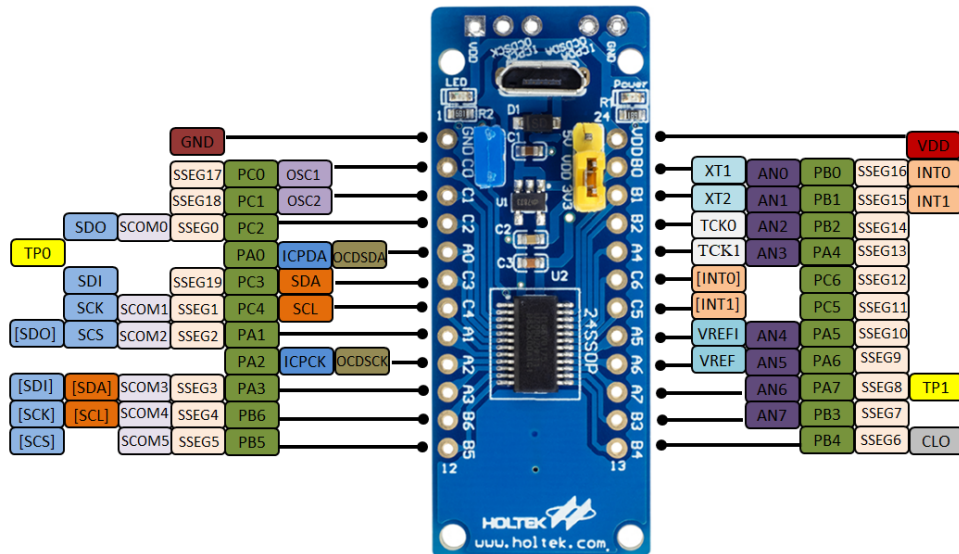


- Schematic

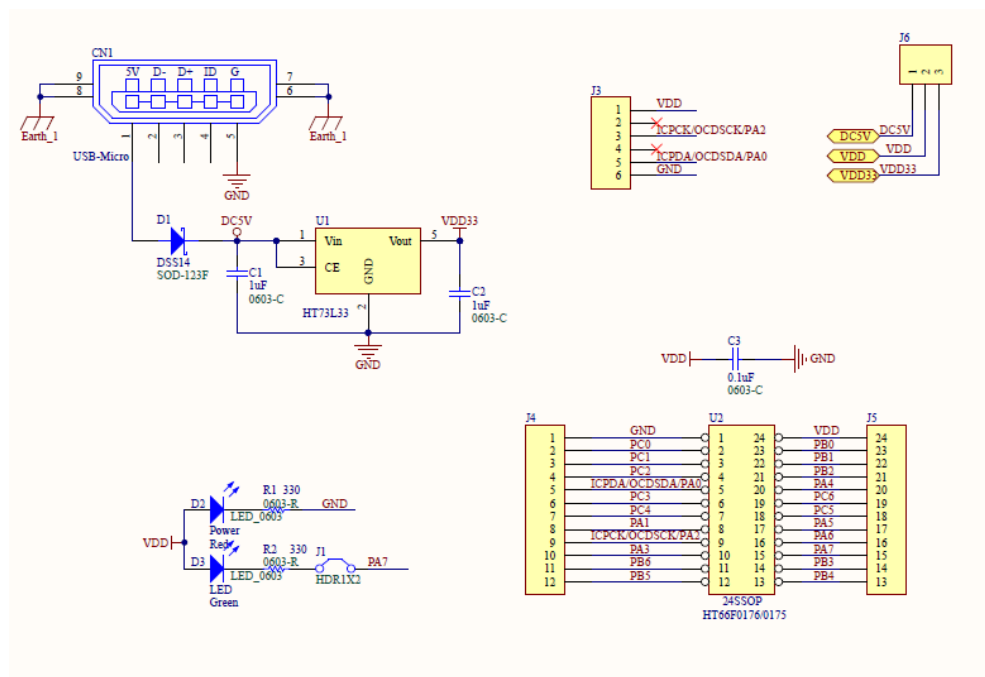


4.5 DEV24SSOP175

- Pin Assignment – size: 20mm×50mm

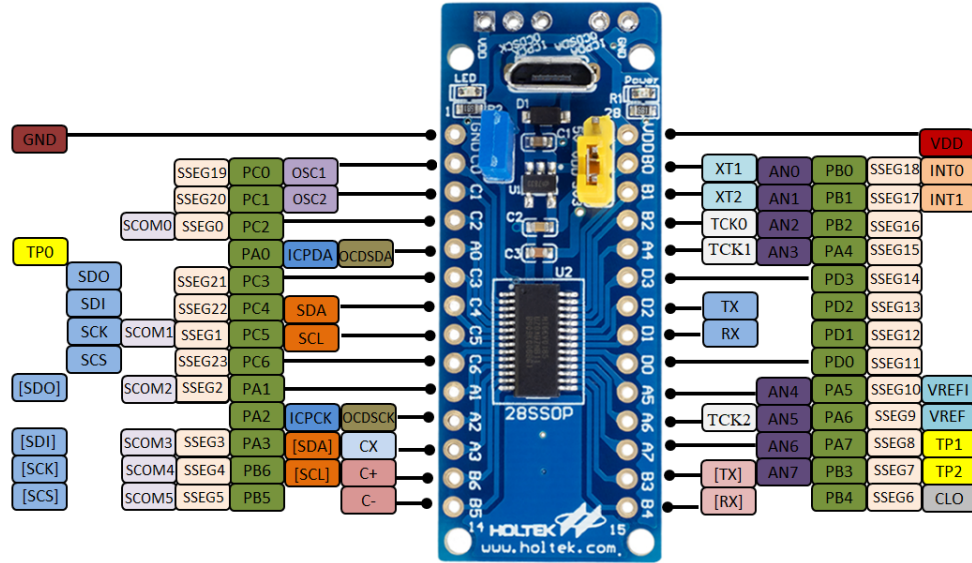


- Schematic

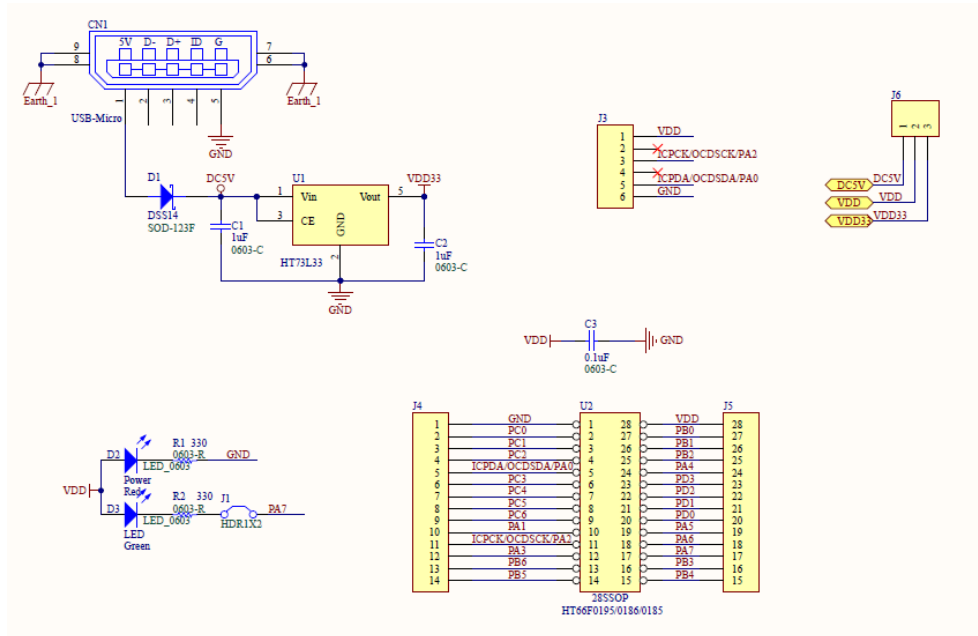


4.6 DEV28SSOP185

- Pin Assignment – size: 20mm×50mm

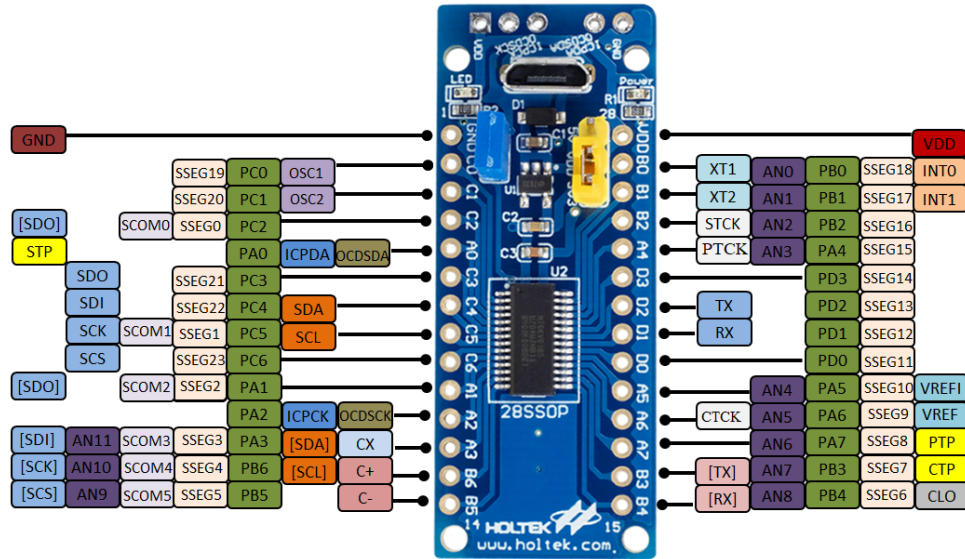


- Schematic

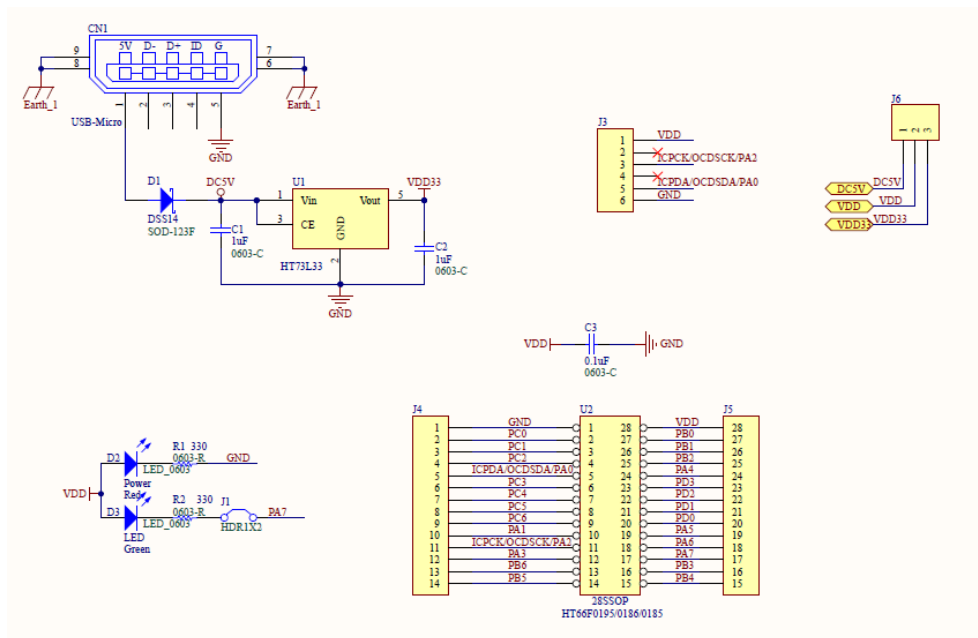


4.7 DEV28SSOP195

- Pin Assignment – size: 20mm×50mm



- Schematic



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