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# HY16F Series IDE Software Instruction Manual

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### 1. IDE Software Introduction

HY16F IDE(Integrated Development Environment) software developmental instrument has adopted AndeSight RDS as its version, which has integrated and developed an environment for the new generation in Andes Technology. It supports the latest 32 Bit CPU core (N801), which suffices the requirements for MCU clients to develop rapidly.

AndeSight IDE Software adopts the interface developed by Andes Technology. The software is based on Eclipse IDE combining external member and module of GCC GNU C Compiler and GDB Debugger . Many firmware programmers are already accustomed to develop program through IDE software. For them, it becomes extremely difficult to use GCC compiler and GDB debugger by Command-Line approach only. However, AndeSight IDE possesses a strong and lucid graphical operation interface, which is easy to get started and for further concentrated on product development.

### 2. IDE System Requirement

Minimum system disposition required by operating AndeSight RDS:

(1) PC/NB Hardware Requirement

- (1.1) X86 System CPU Compatible to IBM PC
- (1.2) 4 GB DDR Memory
- (1.3) 8GB HD Hard Disk Drive Capacity

(2) Supporting Product Model:

- (2.1) HY16F18X Series
- (2.2) HY16F19X Series

(3) Hardware Supporting Model:

- (3.1) HY16F18X Developmental instrument, HY16F18-DK01/DK02
- (3.2) HY16F19X Developmental instrument, HY16F19-DK01/DK02

(4) Software Supporting Version:

- (4.1) Above AndeSight RDSV2.0.1 version

(5) Operation System Requirement:

- (5.1) Windows XP (32-Bit System)
- (5.2) Windows 7 (32/64-Bit System)
- (5.3) Windows 8 (32/64-Bit System)
- (5.4) Windows 10 (32/64-Bit System)


## 3. IDE Software Installation

### 3.1. Compact Disk Content

Include major programs of HY16F IDE (AndeSight RDS) and HY16F product model (HY16F\_Device). Please install AndeSightV2.0.1p1RDS.exe in the compact disk first. Upon installation completion, please install additional HY16F\_DeviceVx.x.exe program, so as to increase settings in HYCON HY 16F developmental environment. Users are asked to execute through following the installation steps.

Regarding to access authority in Windows 7 Operating System above, administrator visit permission is required before computer software can be installed.

Major Installation Program in the Compact Disk

名稱	修改日期	類型	大小
 HY16F_DeviceV0.1.exe	2014/9/2 上午 09:50	應用程式	62,895 KB
 AndeSightV2.0.1.p1RDS.exe	2014/9/1 下午 08:20	應用程式	344,623 KB

Note01:

After extraction, folder name must be Disk1, as shown in the red frame below.

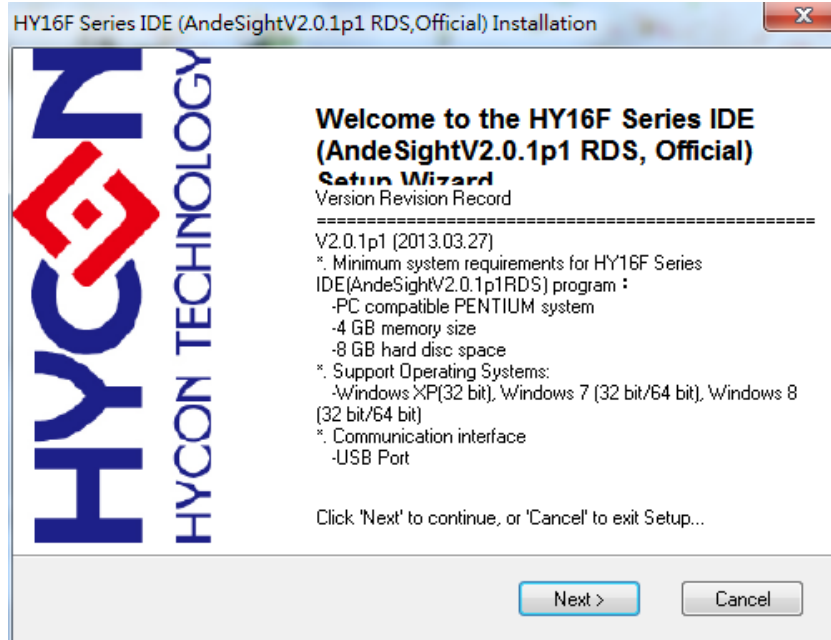


In this case, notification of inserting Disk1 during installation can be avoided.  
After installation, Disk1 can be canceled.  
Users can refer to step C in Chapter 3.2.

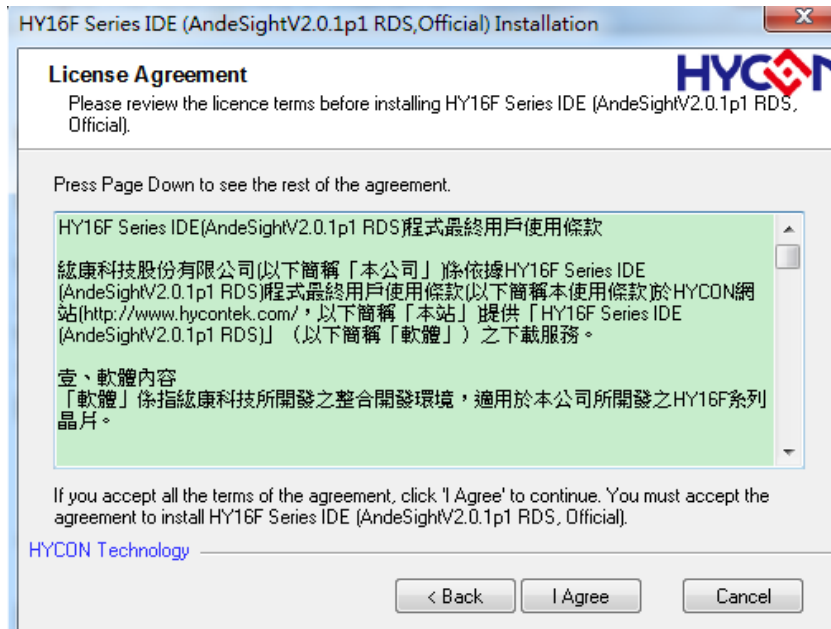
# HY16F Series IDE Software Instruction Manual

## 3.2. HY16F Series IDE Installation

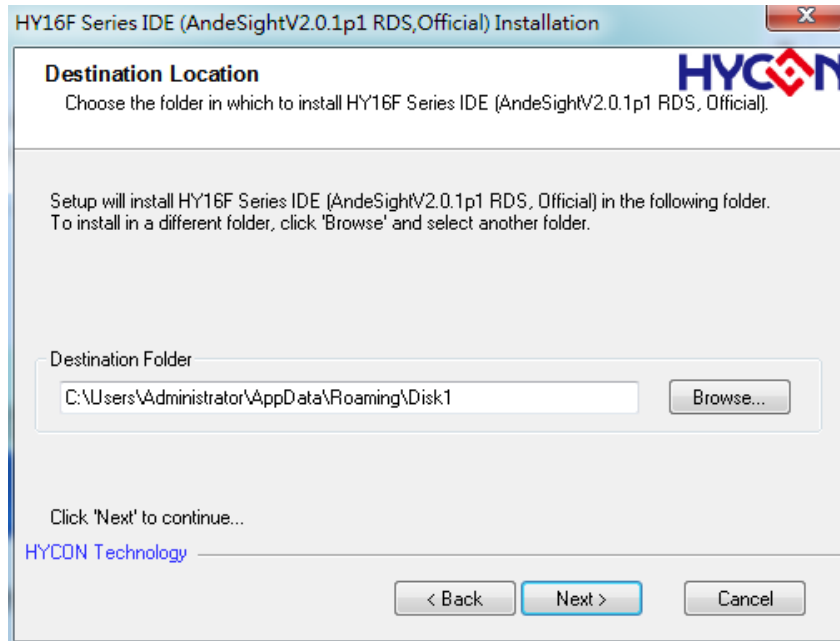
※A : HY16F Series IDE Installation,



※B : License Agreement,



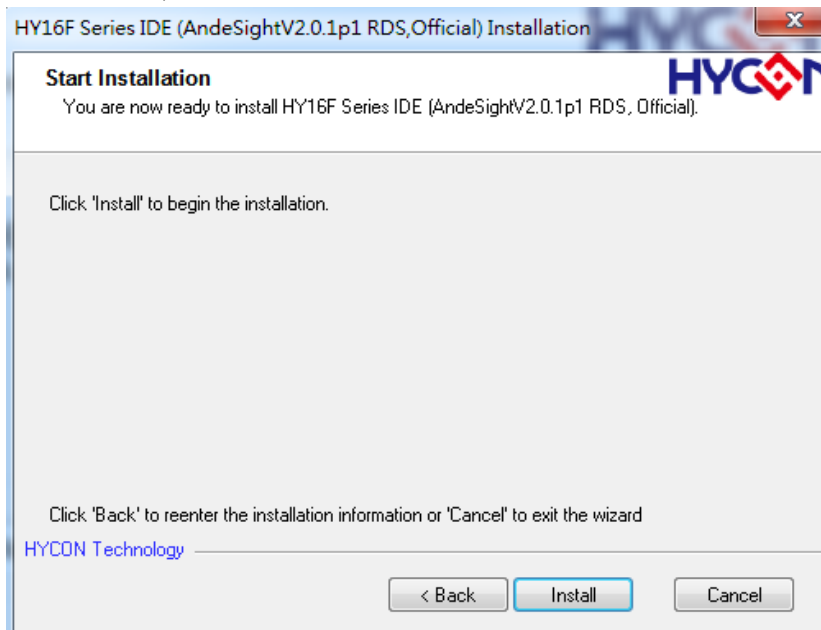
※C : Destination Folder,



Note01:

After extraction, folder name must be Disk1, so as to avoid notification of inserting Disk1 during installation. After installation, Disk1 can be cancelled.

※D : Begin the installation,



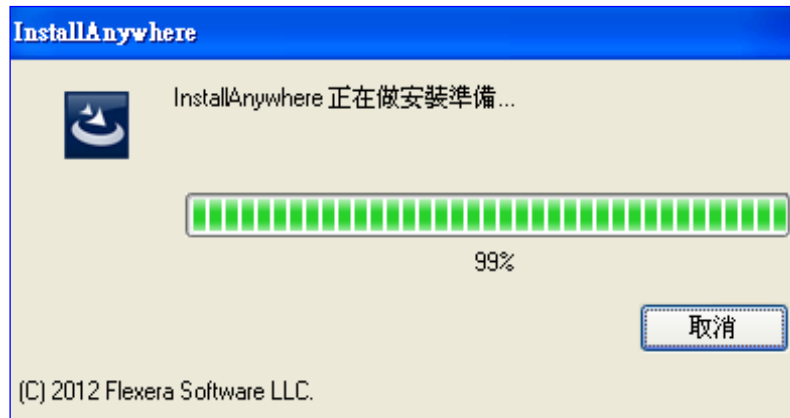


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※E : Finish, then prepare to install HY16F Series IDE (AndeSight). (wait few seconds)

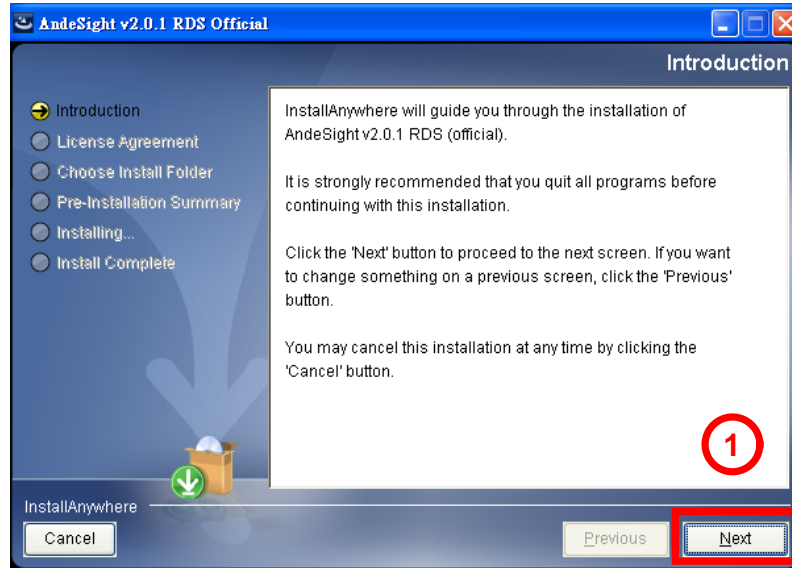


※F: Install Anywhere is now preparing for installation.



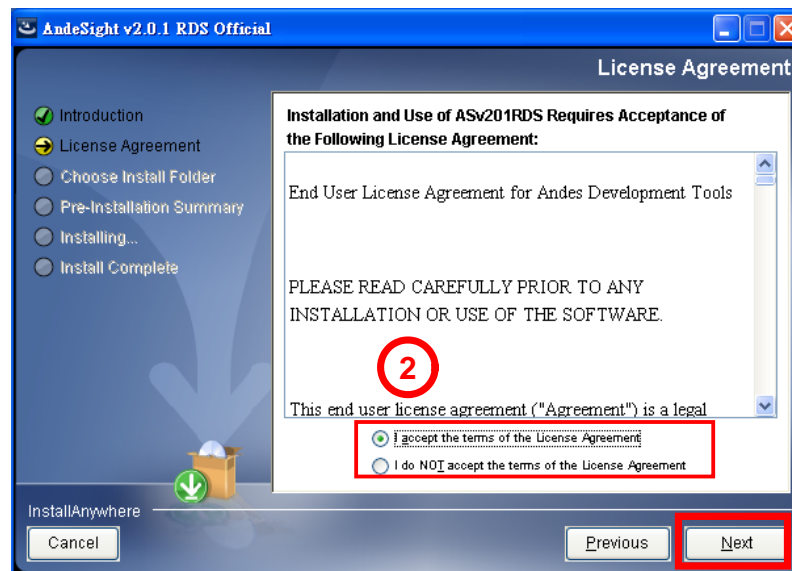
## 3.2.1. Software Installation Step 1

※01: Enter official insallation,selecting NEXT.



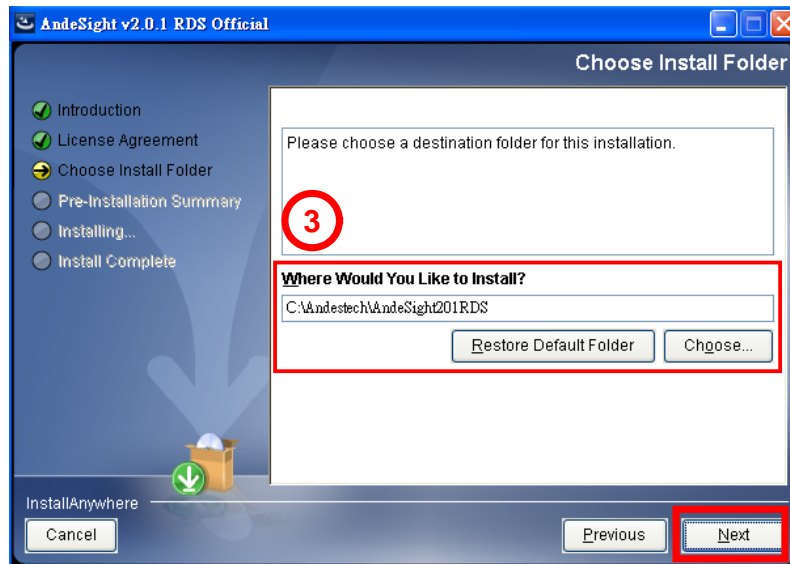
## 3.2.2. Software Installation Step 2

※02: Click “I accept the terms of the License Agreement” before selecting NEXT.



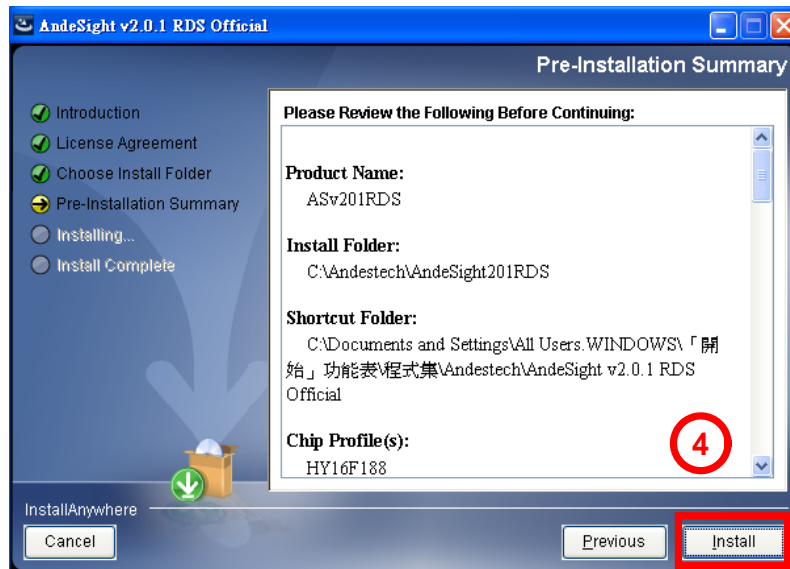
## 3.2.3. Software Installation Step 3

※03: Choose install folder before clicking NEXT. It is suggested not to change the location.



## 3.2.4. Software Installation Step 4

※04: Read the review of pre-installation summary before clicking NEXT.



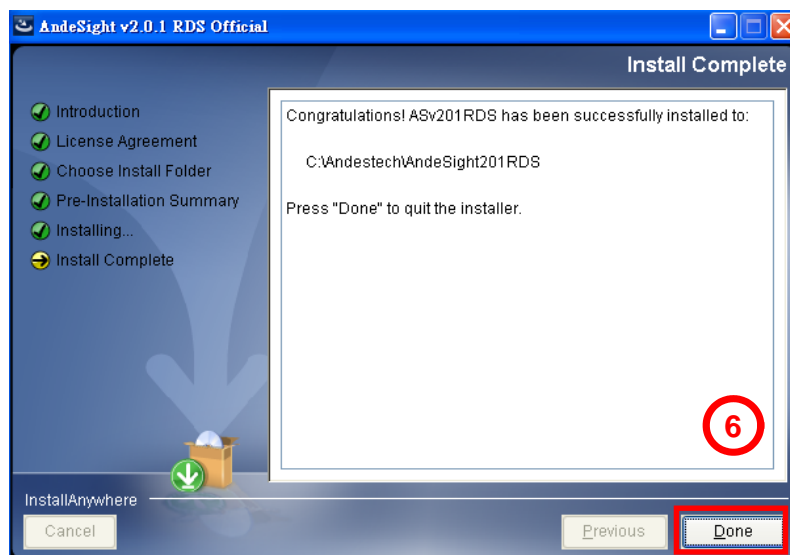
## 3.2.5. Software Installation Step 5

※05: Document Installation Progress, This screen will be presented for 3 to 5 minutes, depending on computer speed.



## 3.2.6. Software Installation Step 6

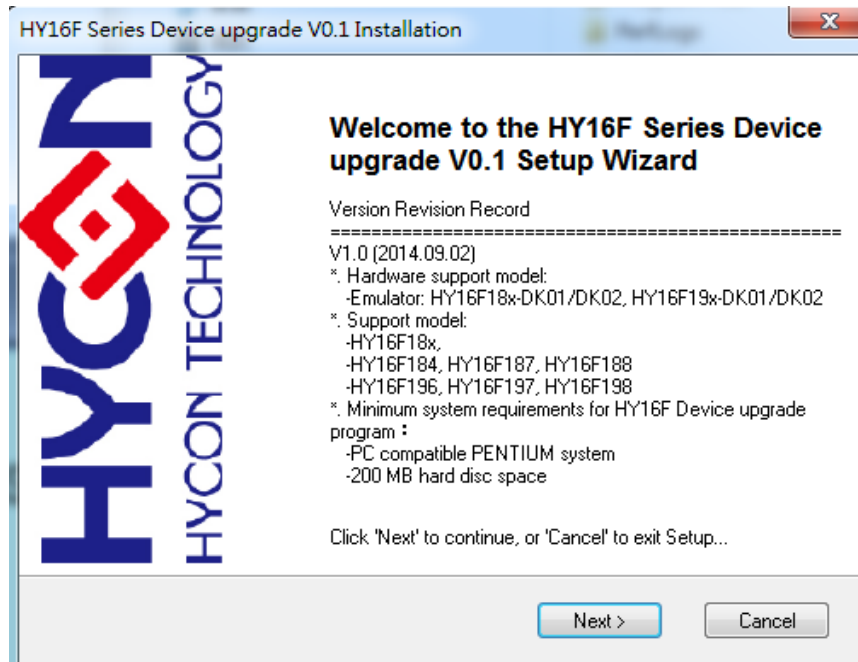
※06: Click Done to complete the installation.



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## 3.3. HY16F Series Device Installation

※A : HY16F Series Device upgrade Installation,



※B : License Agreement,

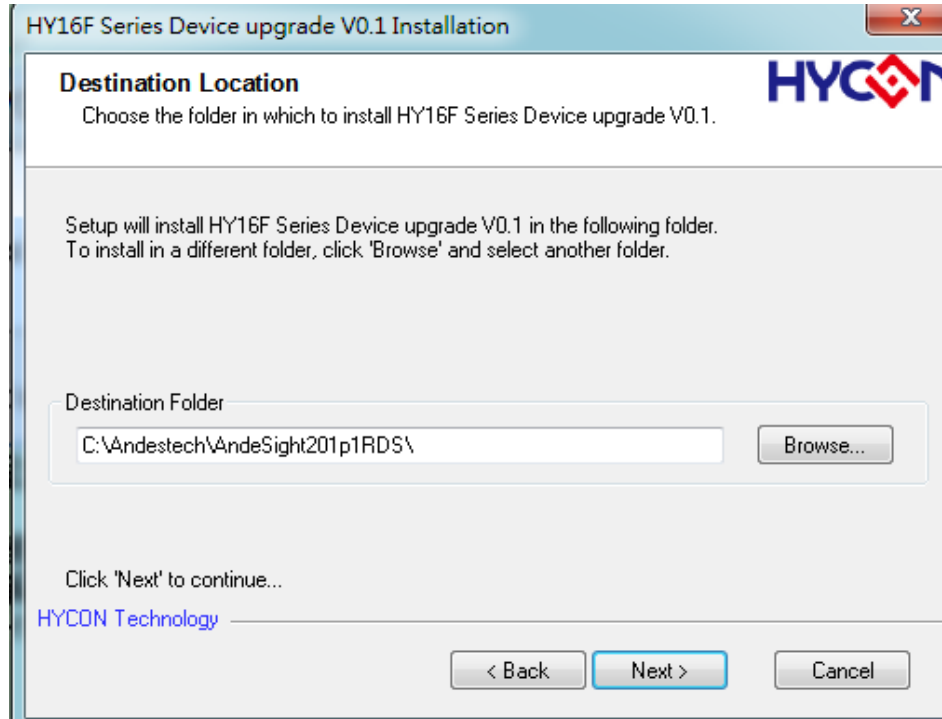


# HY16F Series IDE Software Instruction Manual

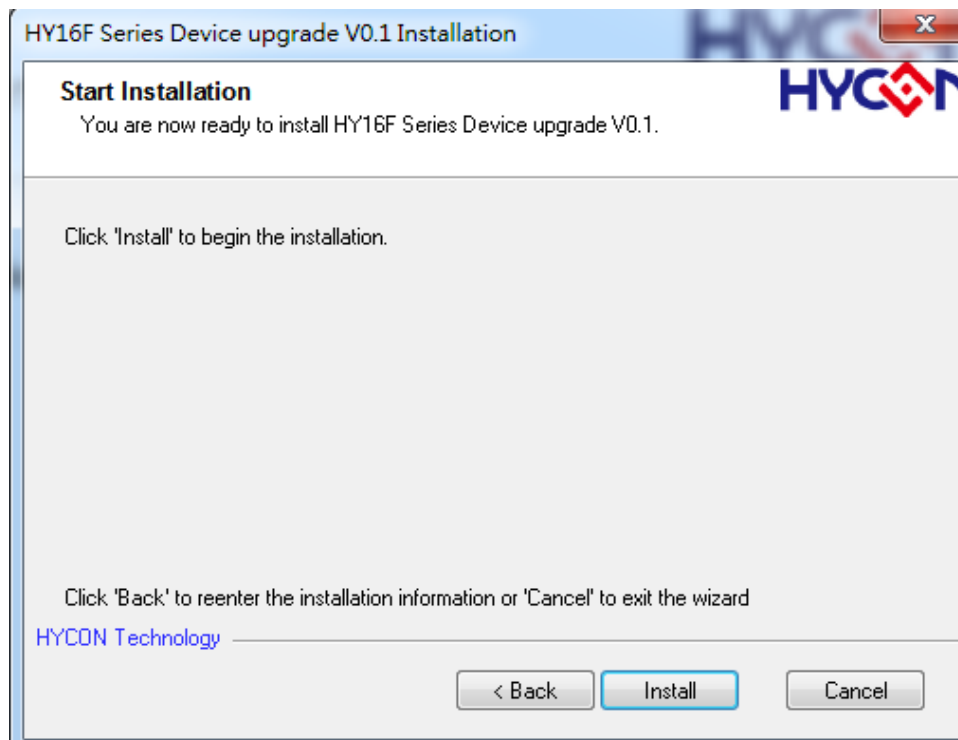
※C : Destination Folder,

Default: C:\Andestech\AndeSight201p1RDS\

Users can make personal adjustment to install directory according to AndeSight installation route.



※D : Begin the installation,



# HY16F Series IDE Software Instruction Manual

※E : Finish, then open document folder.



## 4. IDE Software Registration

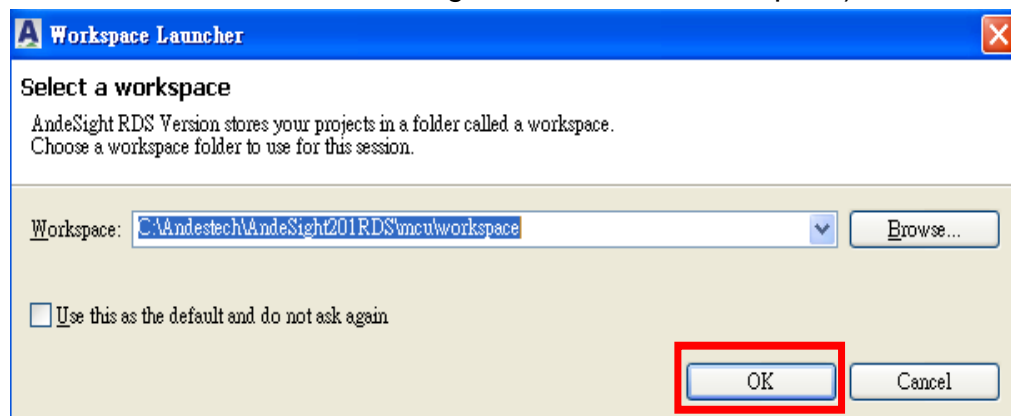
Execute AdeSight.exe under AndeSight v2.0.1 RDS Official on the desktop or the start program and it should be noted that some of the above operating systems Windows 7, due to a permissions problem when executed in a computer software, you need administrator access permissions to normal execution.

### 4.1. Software Opening

※A: This is the opening screen for IDE software.



※B: This is the storage path selection for all projects. Users are free to make personal decisions.  
(Default Path: C:\Andestech\AndeSight201RDS\mcu\workspace)





## 4.2. Registration Steps

### 4.2.1. Step 01

- (1) Execute Setup.exe installation software in the compact disk.
- (2) After installation, please search for the registration document Andes\_license\_for\_HCN140117a39b8158af000001.txt  
C:\Andestech\AndeSight201RDS\License under the folder.

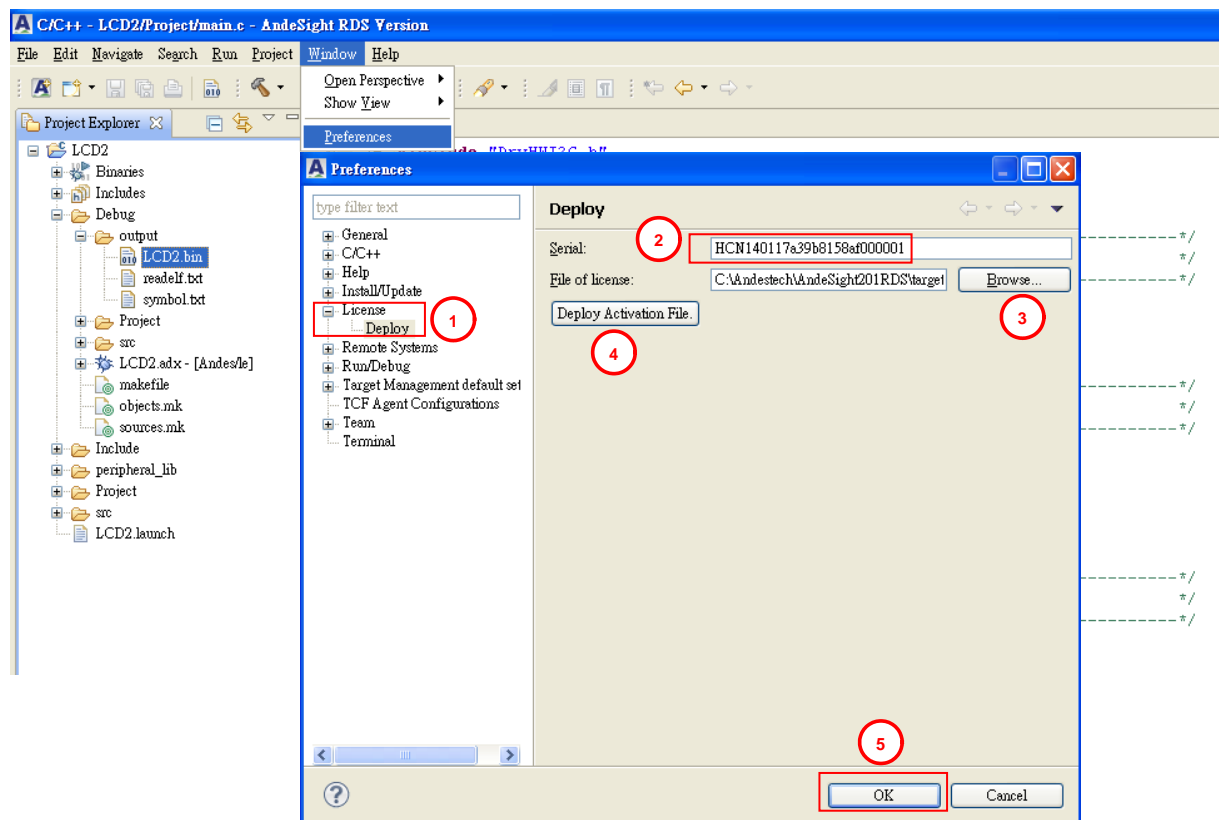
### 4.2.2. Step 02

Data Preparation:

(A) Serial: HCN140117a39b8158af000001

(B) File of License: Andes\_license\_for\_HCN140117a39b8158af000001.txt

Open up AndeSight RDS software and officially open through the screen below.



(C) Preferences under Windows

- (1) Click License
- (2) Input Serial: HCN140117a39b8158af000001
- (3) Search for File of license through Browse  
C:\Andestech\AndeSight201RDS\License\  
Andes\_license\_for\_HCN140117a39b8158af000001.txt
- (4) Click Deploy Activation File to execute software certification (please make sure to enforce).
- (5) Click OK for confirmation.

## 5. Hy-Protool Driver Connection

After software installation, Hy-Protool (AICE Board) can be connected, USB drive program in AICE is required to be installed in this moment.

Drive program is to be installed in:

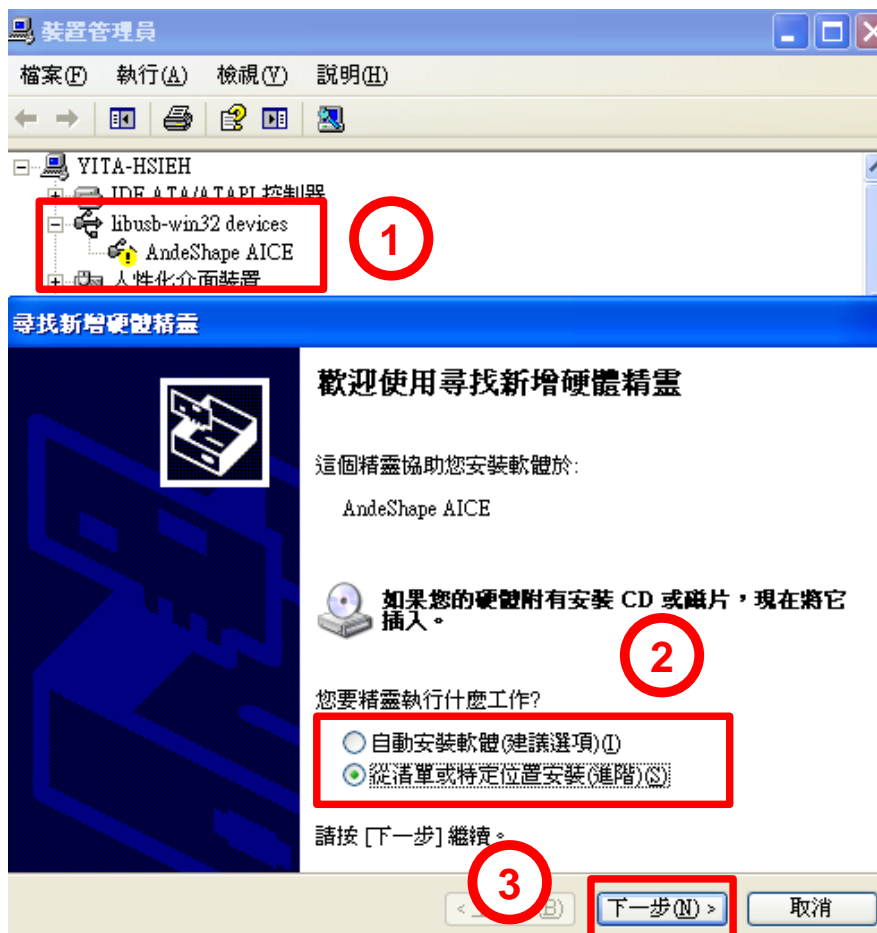
C:\Andestech\AndeSight201RDS\ice\libusb-AndeShape-AICE-driver

### 5.1. HY-Protool Driver Installation Instructions

※01: As illustrated below, administrator is required to be installed in PC, so as to see the drive success in this item.

※02: Path for installation can be selected, AICE drive program.

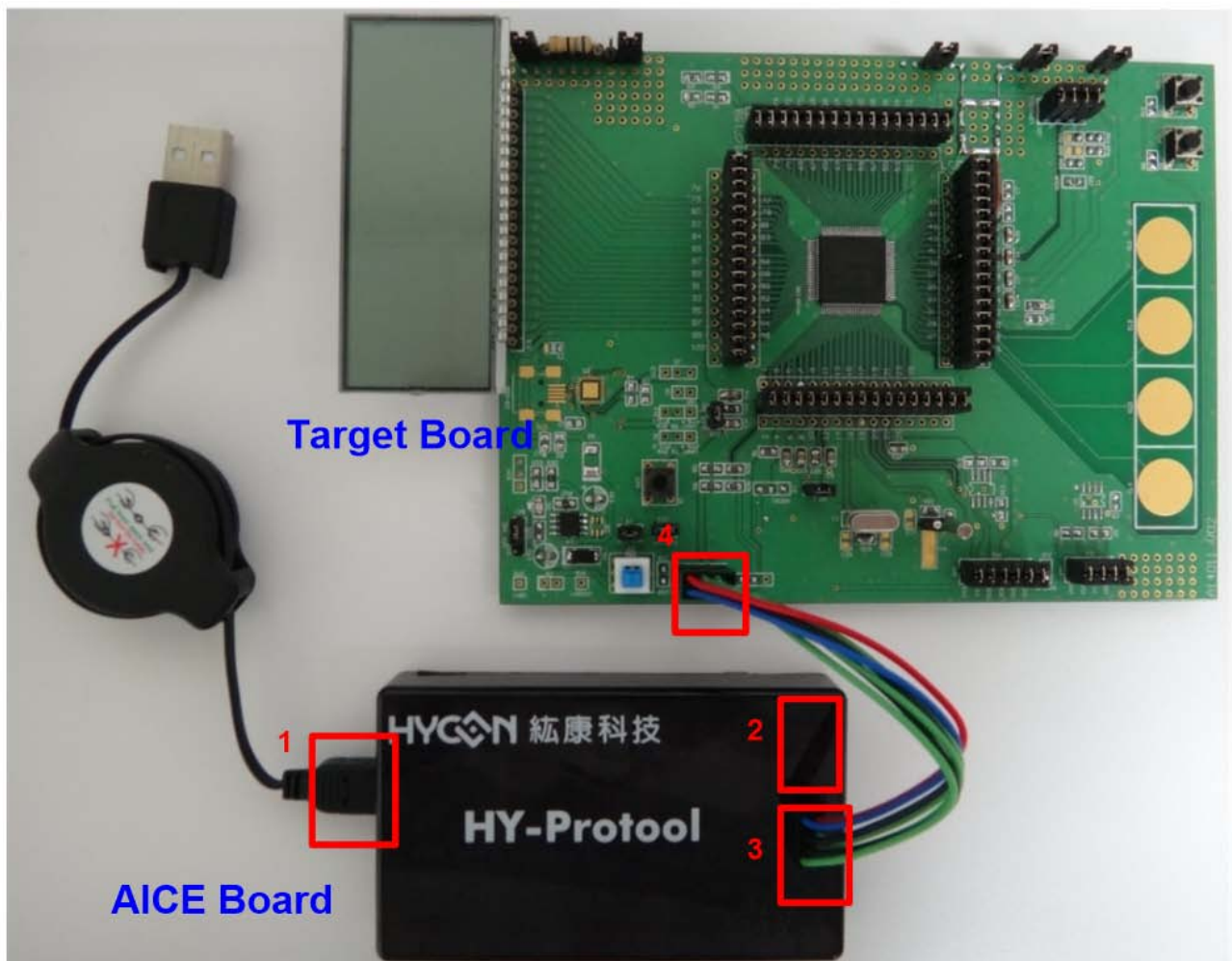
※03: Click next step until installation is completed.



## 5.2. Connection HY-Protocol and Development Tools description

- ※01: The picture presents how PC/NB connects USB to Hy-Protocol (AICE Board).
- ※02: If the light turns red, it represents abnormal communication. If the light turns green, it represents normal communication.
- ※03: The picture presents EDM Port.
- ※04: Chip EDM Connection Port

Target in chart below is HY16F198x product connection illustration. Different products have different connection locations.



## 6. IDE Project Setting

### 6.1. Newly Established Project

(In HY16F198 project as an example)

Step 1: Click Andes Project Creator.

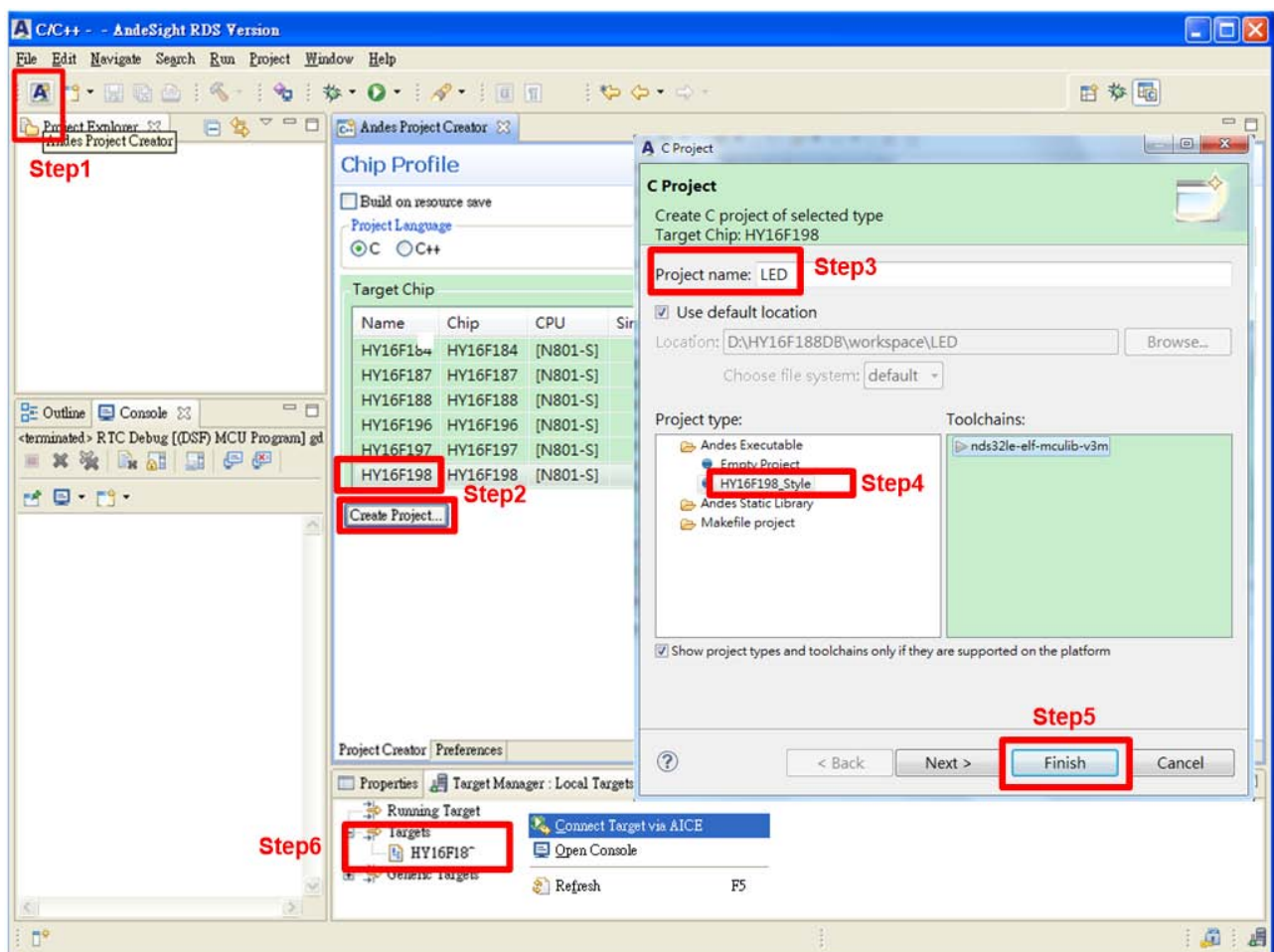
Step 2: Click Create Project.

Step 3: Denominate the Project Name: LED.

Step 4: Select HY16F198\_Style

Step 5: Click Finish after confirmation.

Step 6: Select HY16F198 in the Target and right click to connect HY16F198.



## 6.2. Old File Opening

Step 1: Select File.

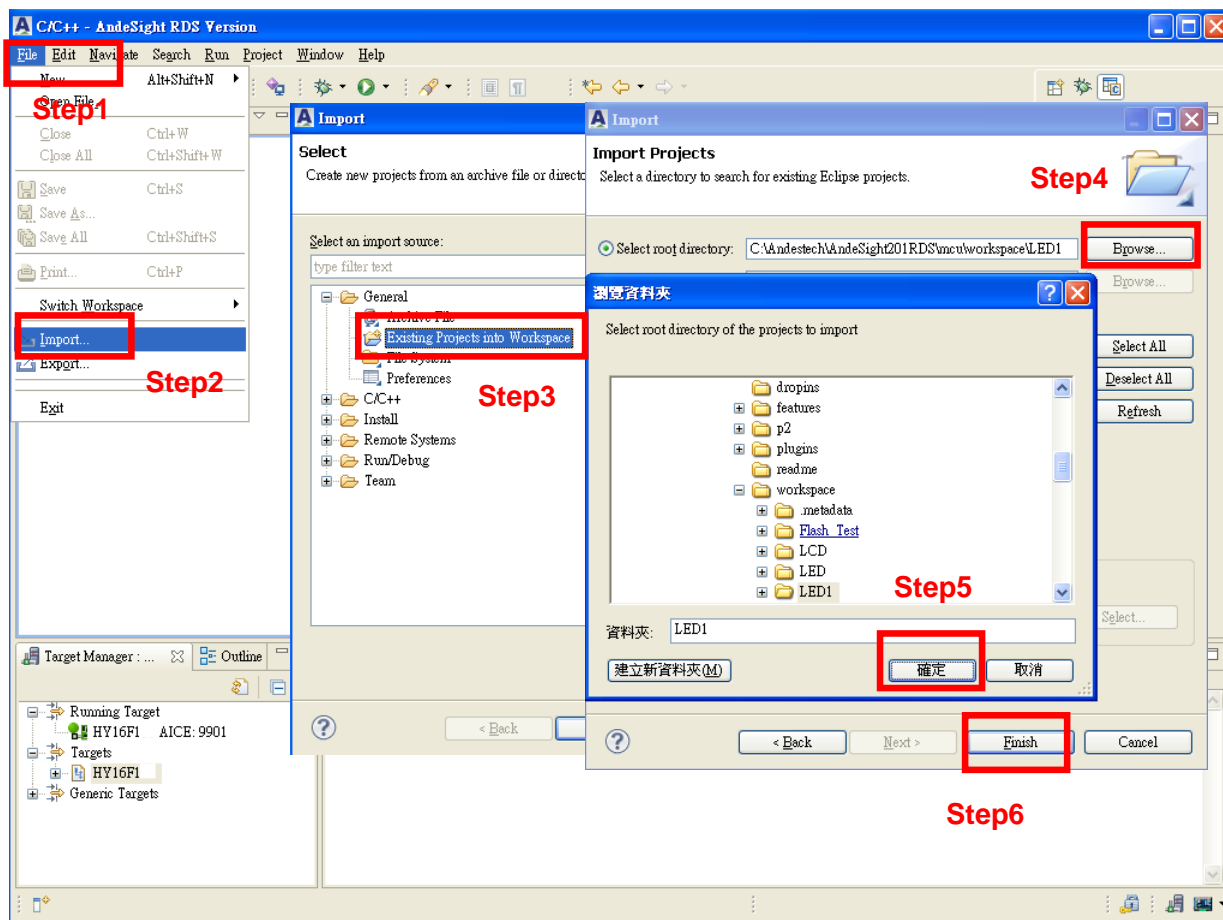
Step 2: Click Import.

Step 3: Select Existing Projects into Workspace.

Step 4: Click Browse.

Step 5: Choose the old file you want to open below Workspace Folder. Click Okay upon confirmation.

Step 6: Click Finish to complete old project opening.



## 6.3. Program Writing

Step 1: Select Project and double click main.c.

Step 2: User can write the C programming language or assembly language under main.c screen.

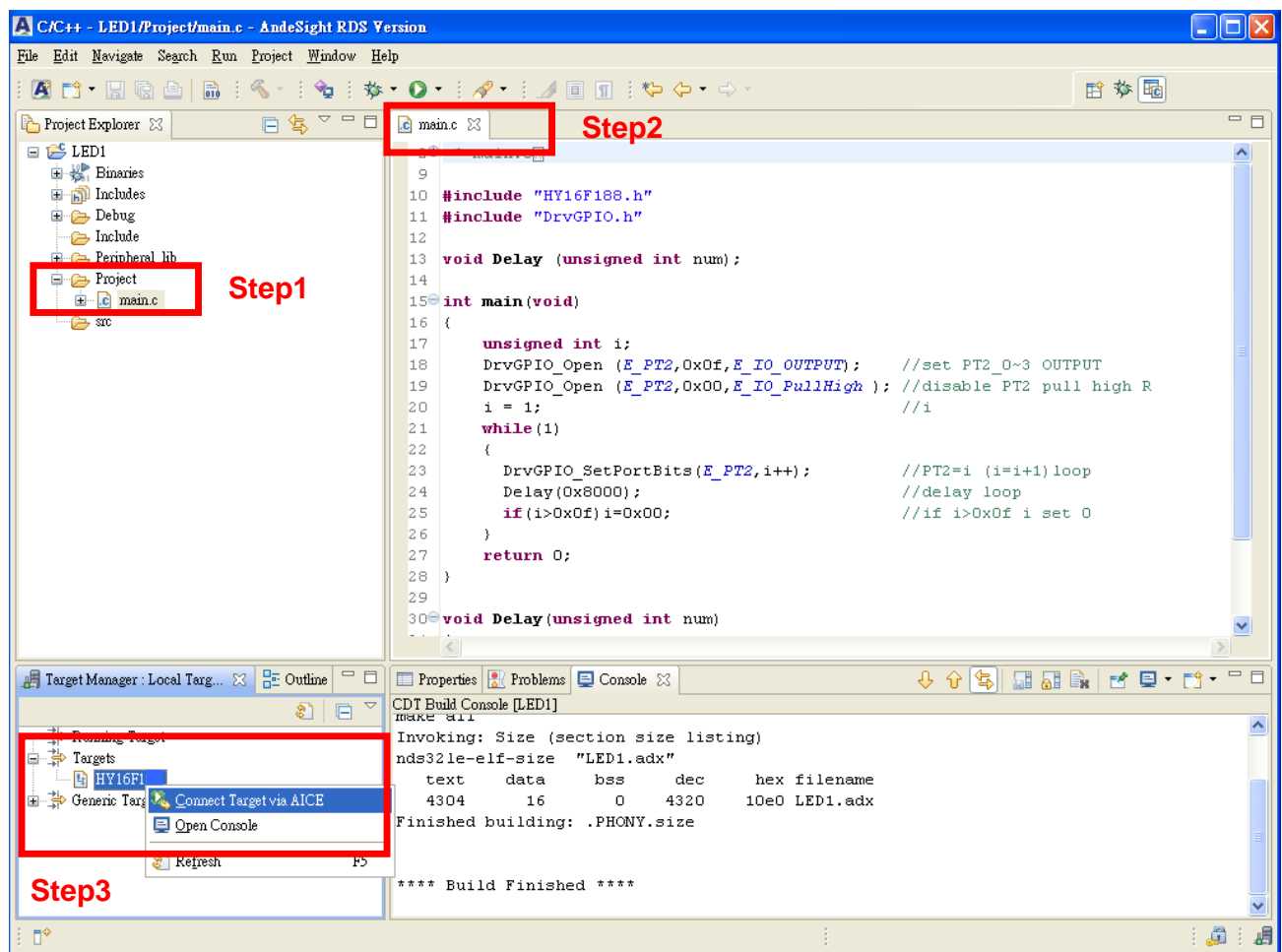
Step 3: Chip connection can be selected, right click to select Connect Target via AICE.

In addition, the following can be chosen.

(1) From Problem next to Console, user can decide whether there are wrongful messages.

(2) Include file is able to add file .h here.

(3) C programs other than main.c can be put in src folder, such as SWI2C.c.

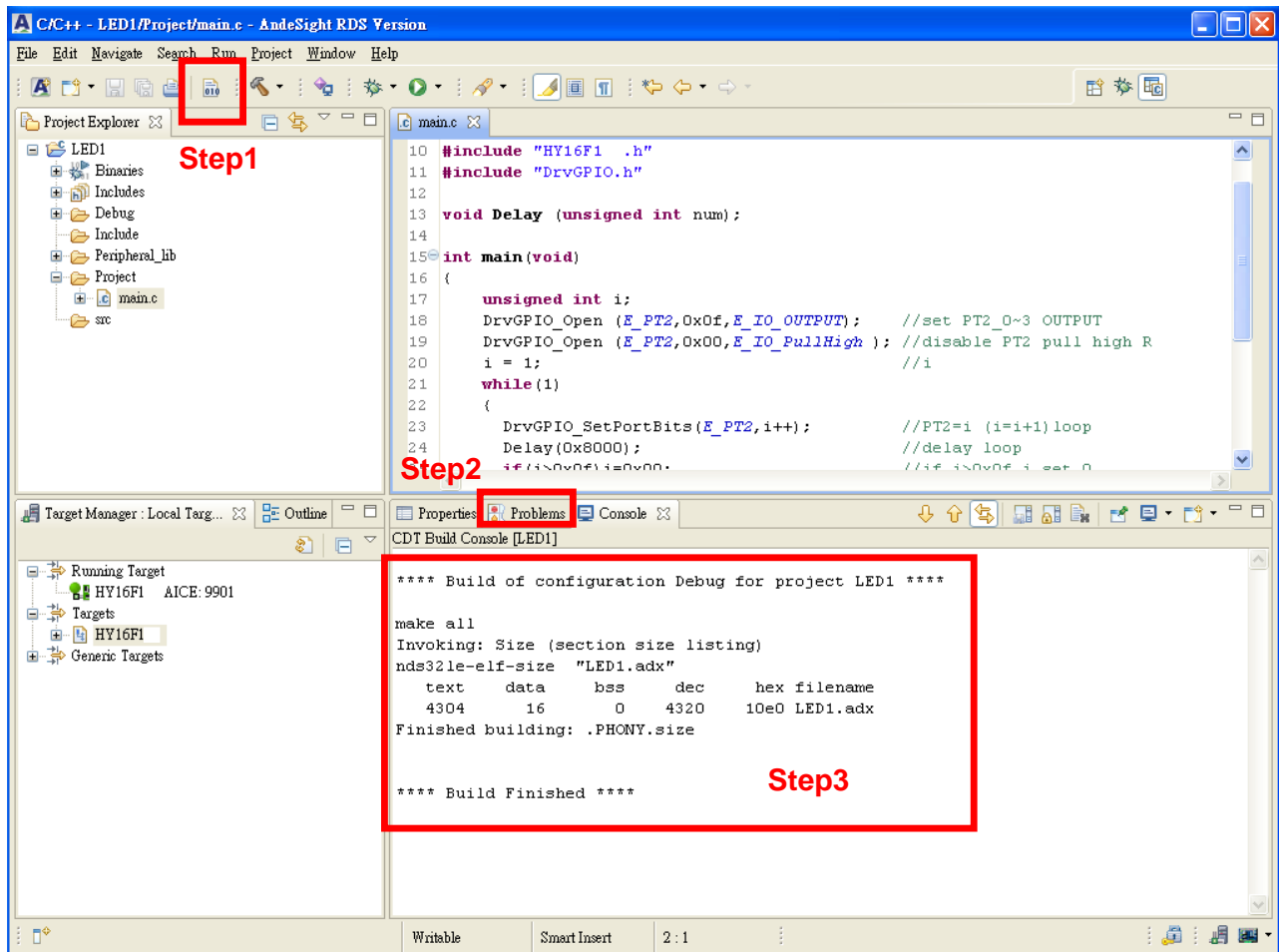


## 6.4. Program Compiling

Step 1: Select illustration Build All. The same can be selected under Project.

Step2: Problems can be selected to see if there are wrongful messages.

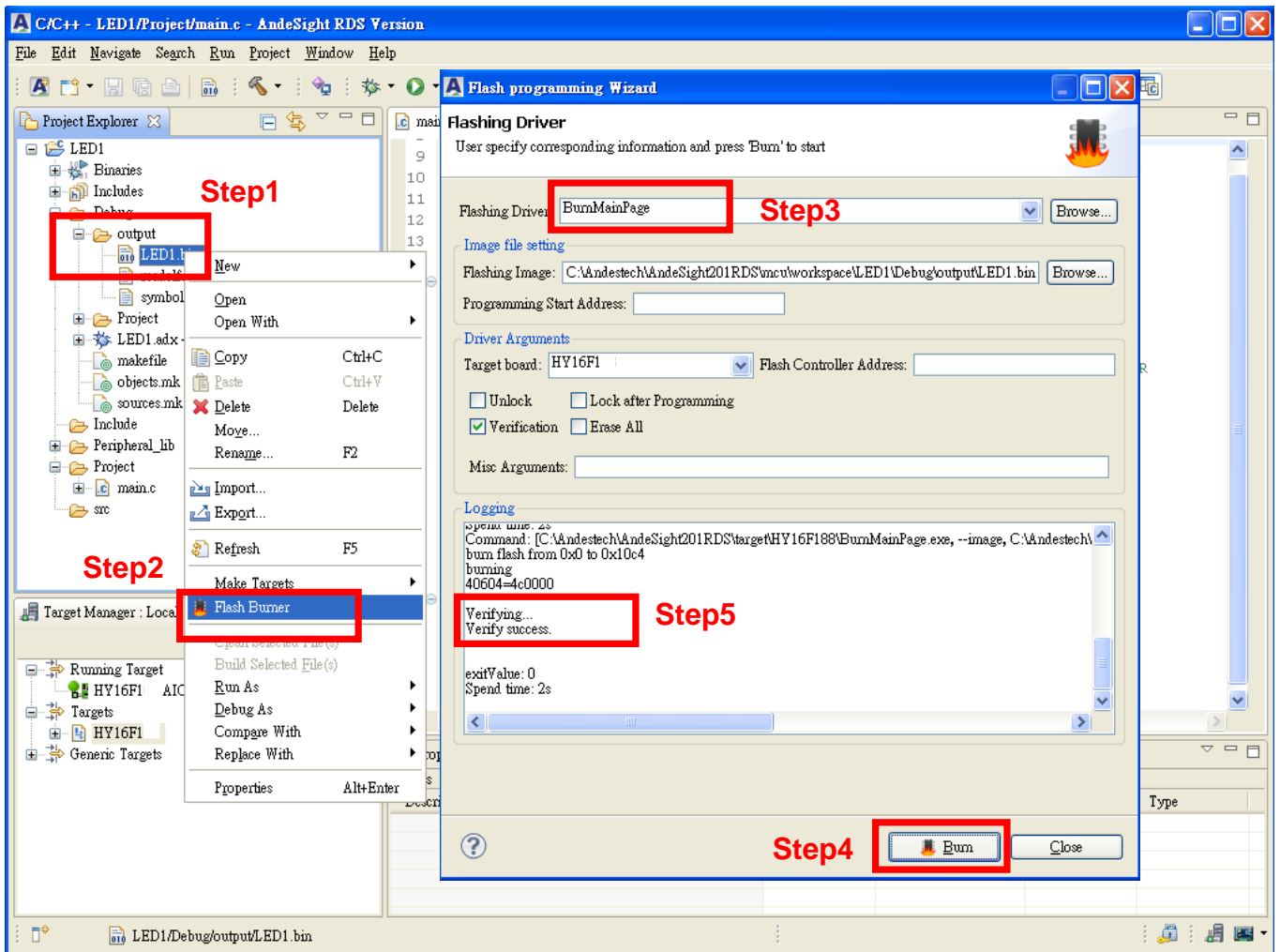
Step 3: By observing Console, users can confirm that Flash usage amount is text=4304 bytes and SRAM usage amount is data=16 bytes.





## 6.5. Chip Burning

- Step 1: Select output under Debug before choosing LED1.bin.
- Step 2: Select .bin and click on the right button before clicking Flash Burner.
- Step 3: Default burner has been set. Don't move unless necessary.
- Step 4: Click Burn to conduct immediate burning.
- Step 5: By observing Logging screen, users can see if the burning were successful and grasp the total burning time.

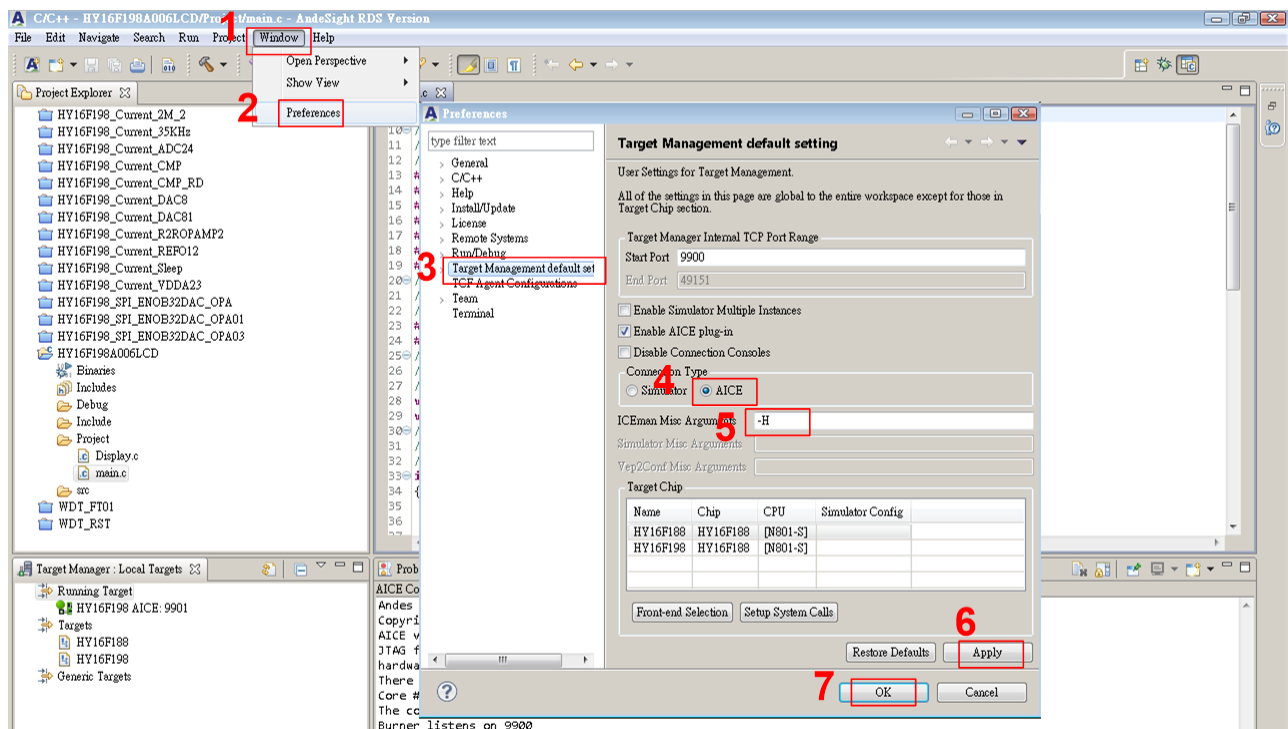




## 6.6. Debug Mode

Set Reset and Hold instruction to ensure that the chip can gain access to Debug mode normally.

- Step 1: Select Window in main IDE screen.
- Step 2: Execute Preferences option.
- Step 3: Execute Target Management default set.
- Step 4: Select AICE.
- Step 5: Fill -H into ICEman Misc Argument.
- Step 6: Click Apply.
- Step 7: Click OK after confirmation to complete the setting.



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Set default stopping point under Debug mode.

Step 1: Click the droplist before choosing Debug Configuration.

Step 2: Select (DSF) MCU Programmer in the middle.

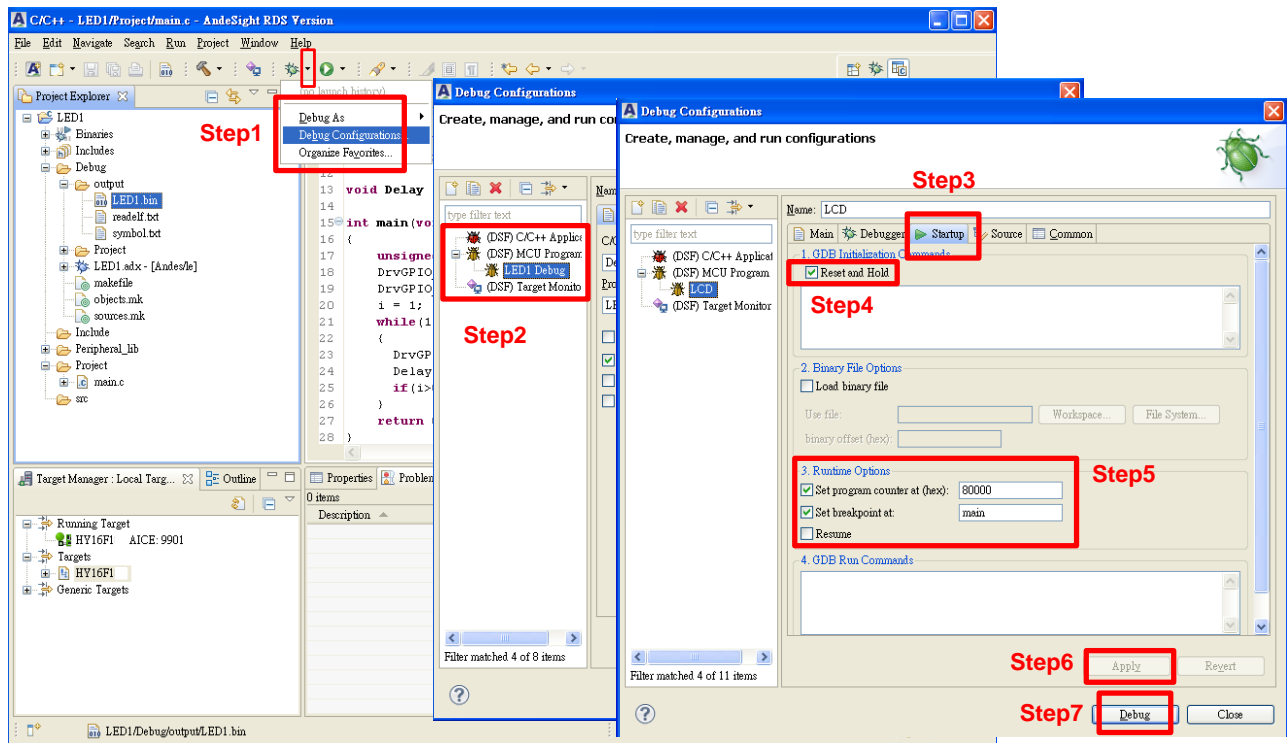
Step 3: Set Startup.

Step 4: Reset and Hold.

Step 5: Set 80000 and main in 3.Runtime Options.

Step 6: Click Apply agree Option.

Step 7: Click Debug to enter the debug mode.



## 6.7. Function List

Step 1: Double click the Main program. For example, by double clicking the 24<sup>th</sup> row, a blue breakpoint can be developed.

Step 2: Regarding to selection ABCDEFGH in the Debug mode: A (Software Resetting) / B (Free Run) / C (Pause) / D (Exit) / E (Step Into) / F (Step Over) / G (Jump Out) / H (Assembly Language can be single executed.) (Only the C Programming Language can be single executed after cancellation.)



Step 3: Observe assembly language instruction.

Step 4: Ensure that the chip is presented in Debug mode, with a stop sign being displayed.

Step 5: SRAM can be observed in the memory screen.

Step 6: All IP Register Screens

Step 7: From variable screen, variables in C language can be observed.

The screenshot shows the AndeSight RDS IDE interface with several windows and components highlighted with red boxes and labels:

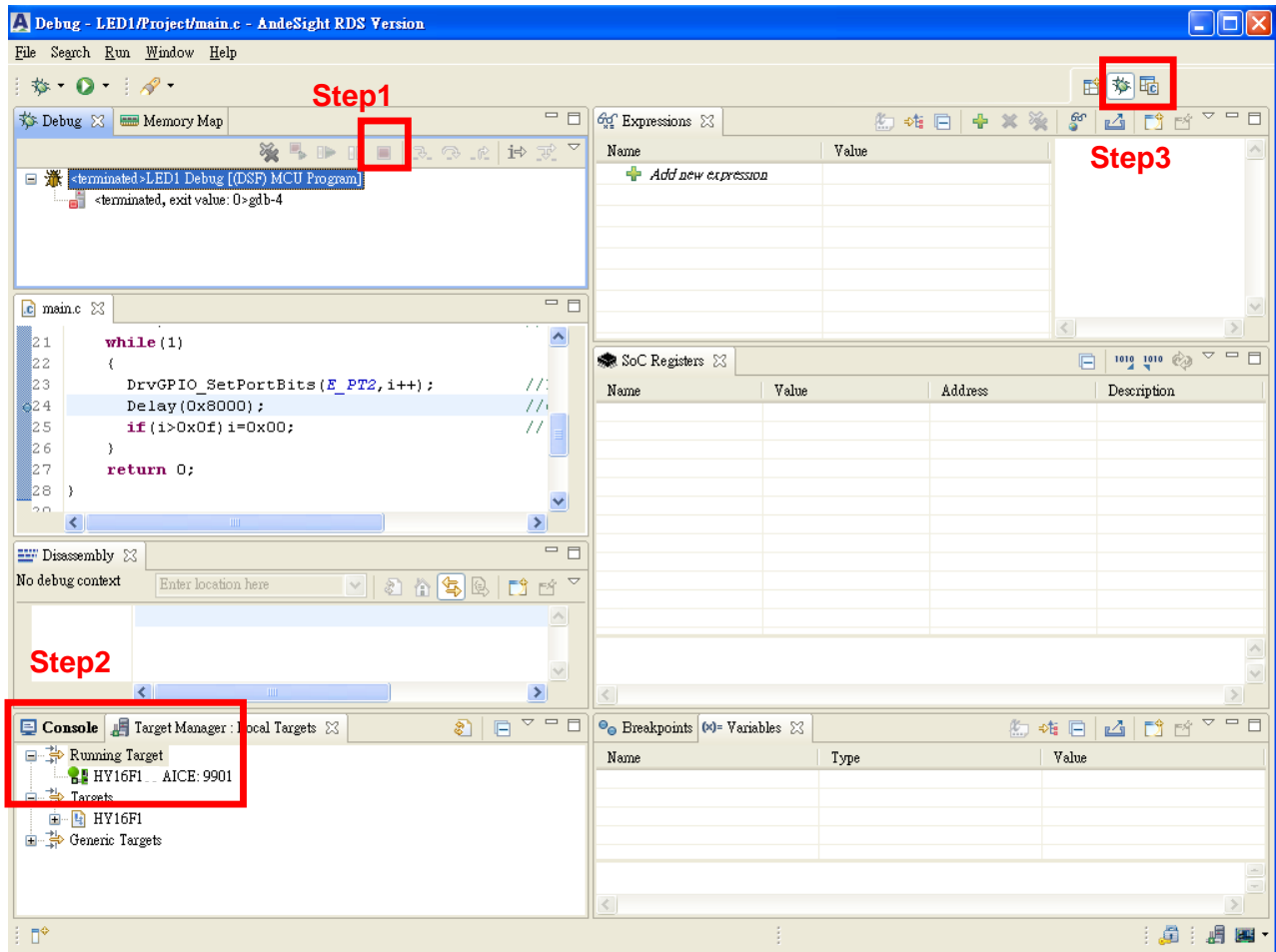
- Step 1:** A red box highlights the source code editor showing a C program with a breakpoint set at line 24.
- Step 2:** A red box highlights the debug toolbar with icons labeled A through H.
- Step 3:** A red box highlights the disassembly window showing assembly instructions for the current line.
- Step 4:** A red box highlights the target manager window showing the selected target (HY16F1).
- Step 5:** A red box highlights the memory monitor window showing memory addresses and values.
- Step 6:** A red box highlights the SoC Registers window showing a list of system registers like SYS, WDT, CLK, PMU, MC, PIO1, and PIO2.
- Step 7:** A red box highlights the variables window showing a variable 'i' with a value of 0x3.

## 6.8. Offline Function

Step 1: After confirming the correctness in Debug mode, click exit button to leave.

Step 2: Under this moment, chip will exit debug mode. By moving JATG away and power on, program can execute the compiled function offline.

Step 3: Debug mode and compiling mode can be switched.



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### 7. IDE Example Program

- (1) This is LED simple example program.
- (2) Majorly divided into announcement district / main program / secondary program.
- (3) Respective explanations are specified as the programs below.

00		
01	#include "HY16F1XX.h"	// HY16F18X.H file declare
02	#include "DrvGPIO.h"	// DrvGPIO.H file declare
03		
04	void Delay (unsigned int num);	// Delay vice program declare
05		
06	int main(void)	
07	{	
08	unsigned int i;	// Variable i declare
09		
10	DrvGPIO_Open(E_PT2,0X0F,E_IO_OUTPUT);	// Set PT2.0~3 as output
11	DrvGPIO_Open(E_PT2,0X00,E_IO_PullHigh );	// Turn off PT2.0~7 internal enhanced resistor
12		
13	i=1;	// Set initial value of variable i as 1
14		
15	while(1)	
16	{	
17	DrvGPIO_SetPortBits(E_PT2,i++);	// Put variable i to PT2.0~3
18	Delay(0X8000);	//Delay Loop
19	if(i>0X0F) i=0X00;	// If i>0X0F, then set i as 0
20	}	
21	return 0;	
22	}	
23		
24	void Delay(unsigned int num)	//Delay LOOP
25	{	
26	volatile int a;	
27	for(a=0;a<=num;a++);asm("NOP");	
28	}	
29		

## 8. HY16F GUI user's Guide

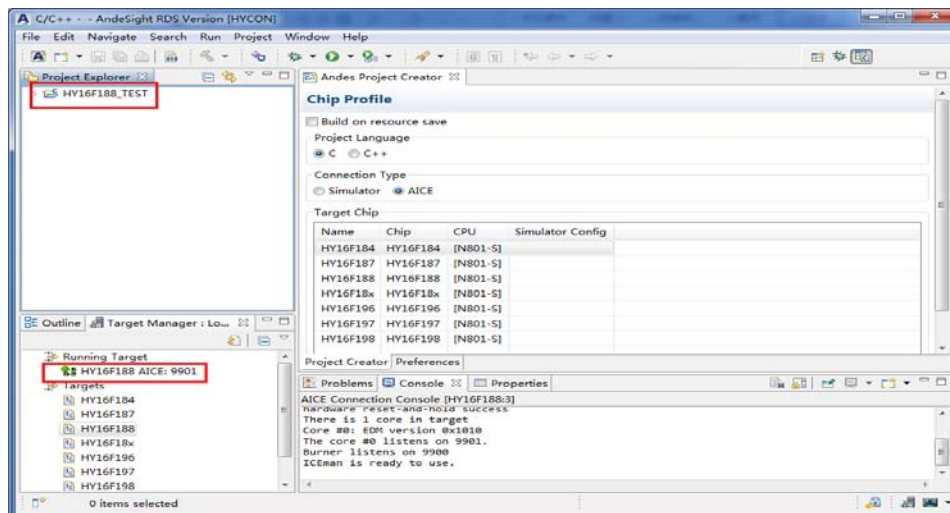
In order to facilitate customers to use HY16F Series products, On AndeSight development platform can be easy to use, the terminal emulator products, Introducing graphic HYCON GUI (Graphical user interface) user interface.

### 8.1. Enter HYCON GUI

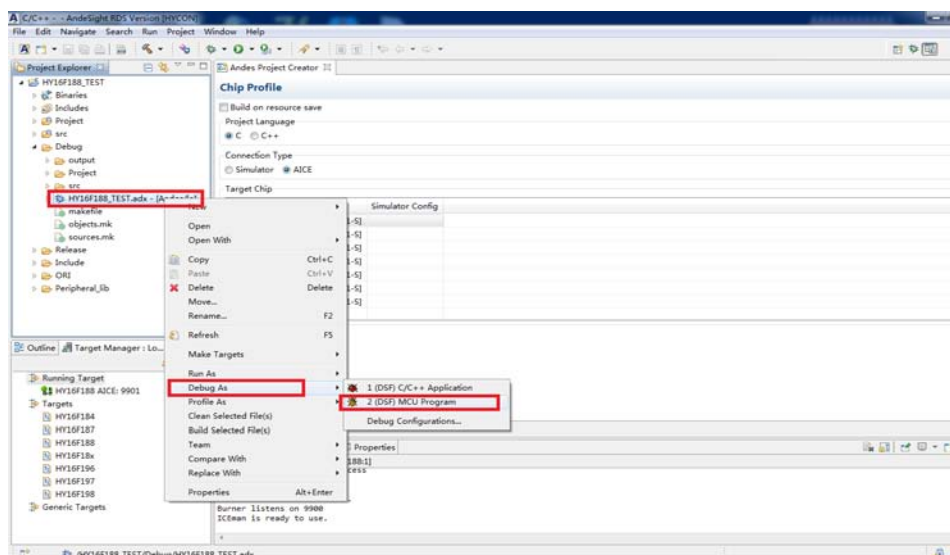
#### 8.1.1. Enter Debug window

(In HY16F188 project as an example)

STEP1 : HY16F18-DK02 Development tools needed to connect PC using HY-Protocol, Open AndeSight Software, Connection target : HY16F188 after , Open a project file (HY16F188).



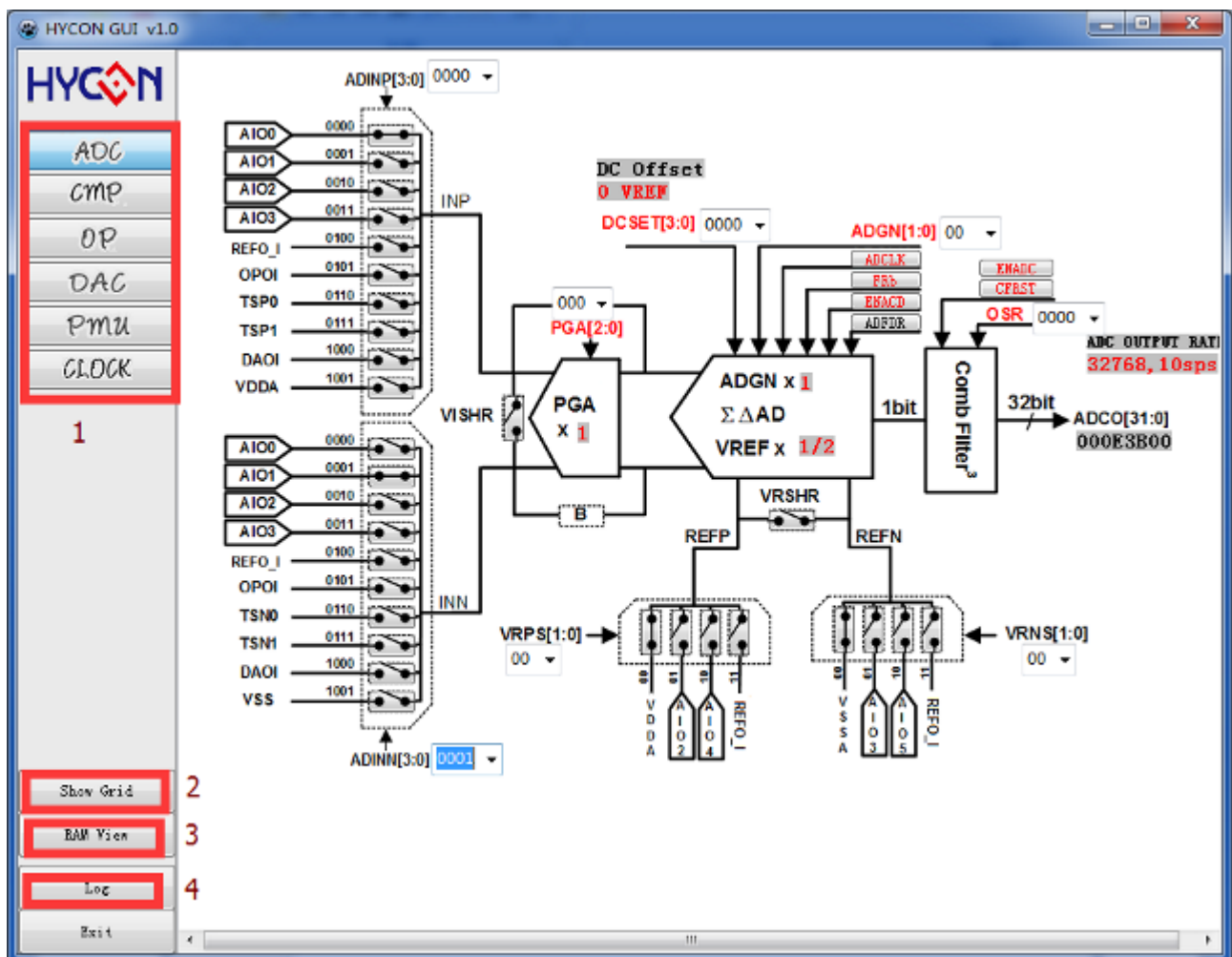
STEP2 : Expand the project file (Debug File) , Right-click "XXX.adx-[Andes/le]" →"Debug As"→"click '(DSF)MCU Program'", Automatic pop-Debug window, And minimize.



## 8.1.2. Open HYCON GUI

In Debug mode, Open task bar HYCON GUI, Move the cursor into the left window , Menu bar appears, as shown below:

- Item 1: IC Function control module Photos window option
- Item 2: "Show Grid "for the display module register values
- Item 3: "RAM View" to display the values of all modules register, and can choose to save the output as ".h" file

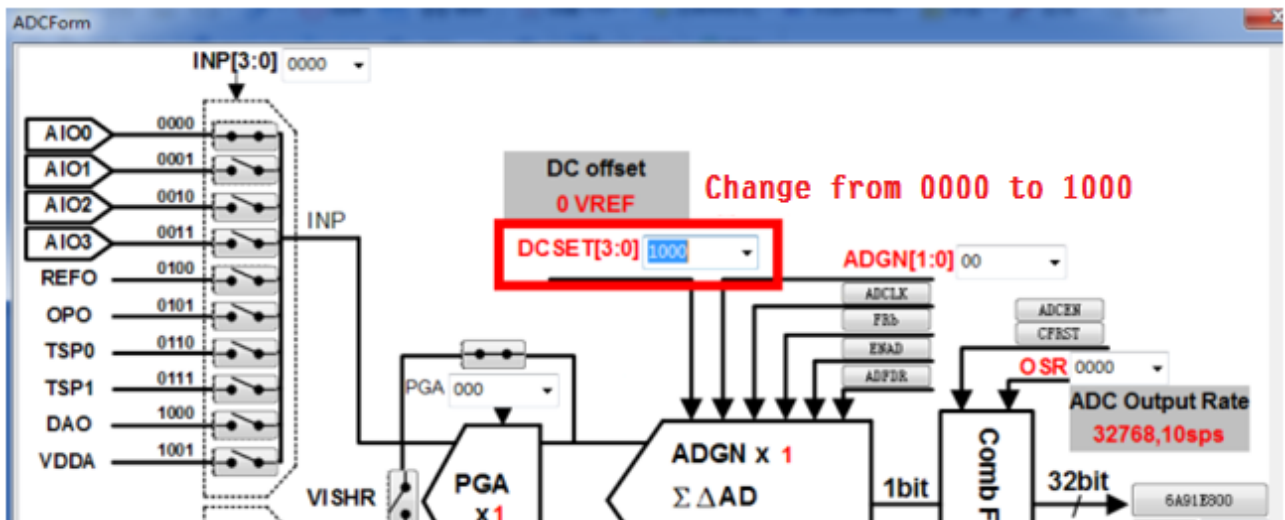


## 8.2. HYCON GUI IP(Intellectual Property) Features

Move the cursor into the left window, you can select each IP function module graphics window.

### 8.2.1. ADC (Analog-to-digital converter)

Change ADC window settings(Reference HY16F Series User Manual [17. ADC]), ADC register value will change synchronously , at the same time "SoC Registers" window (with the refresh button) , After pressing the AD will produce a continuous output value, as shown below:

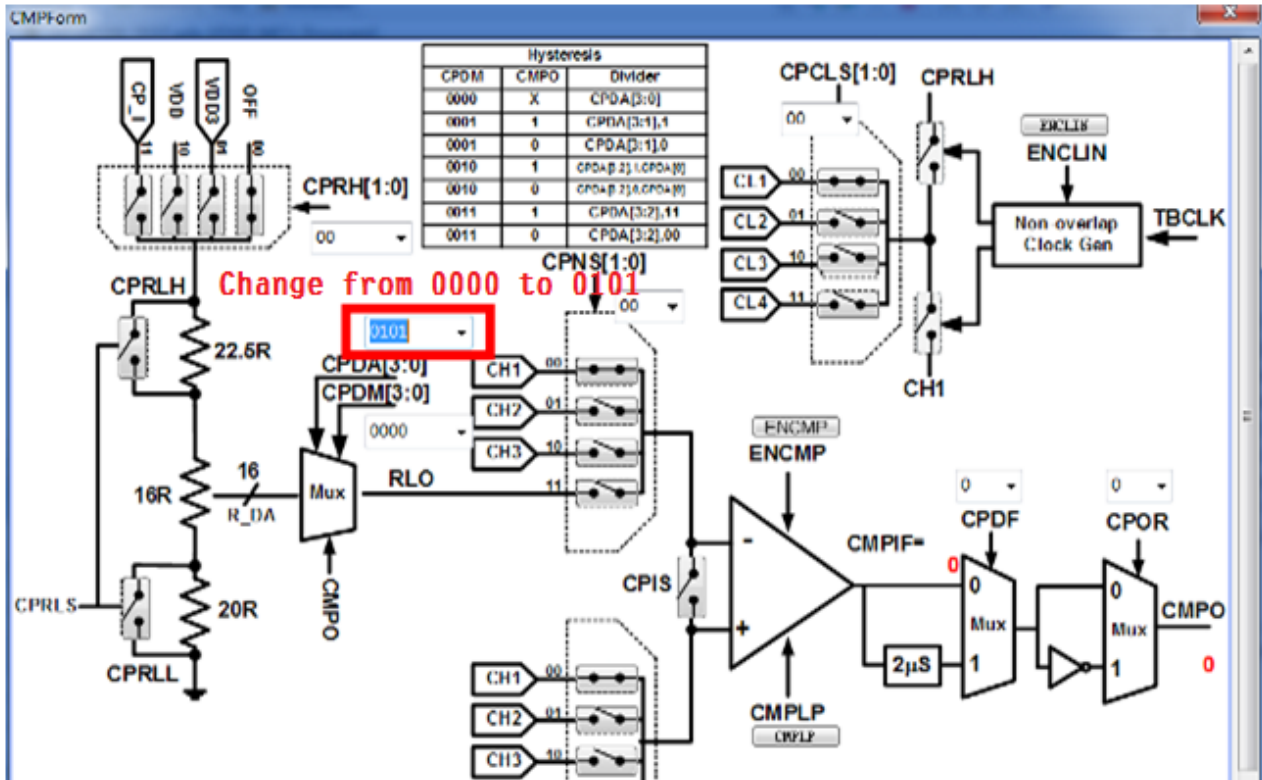


Name	Value	Address	Description
ADC			
ADC1	0x0	0x41100	Mask
ADC2	0x8000000	0x41104	ADOS
ADC3	0xffdd100	0x41108	ADOS
DAC			



## 8.2.2. CMP (Comparators)

Change CMP window settings (Reference HY16F Series User Manual [20. CMP] ) , CMP Register value change synchronously, as shown below:



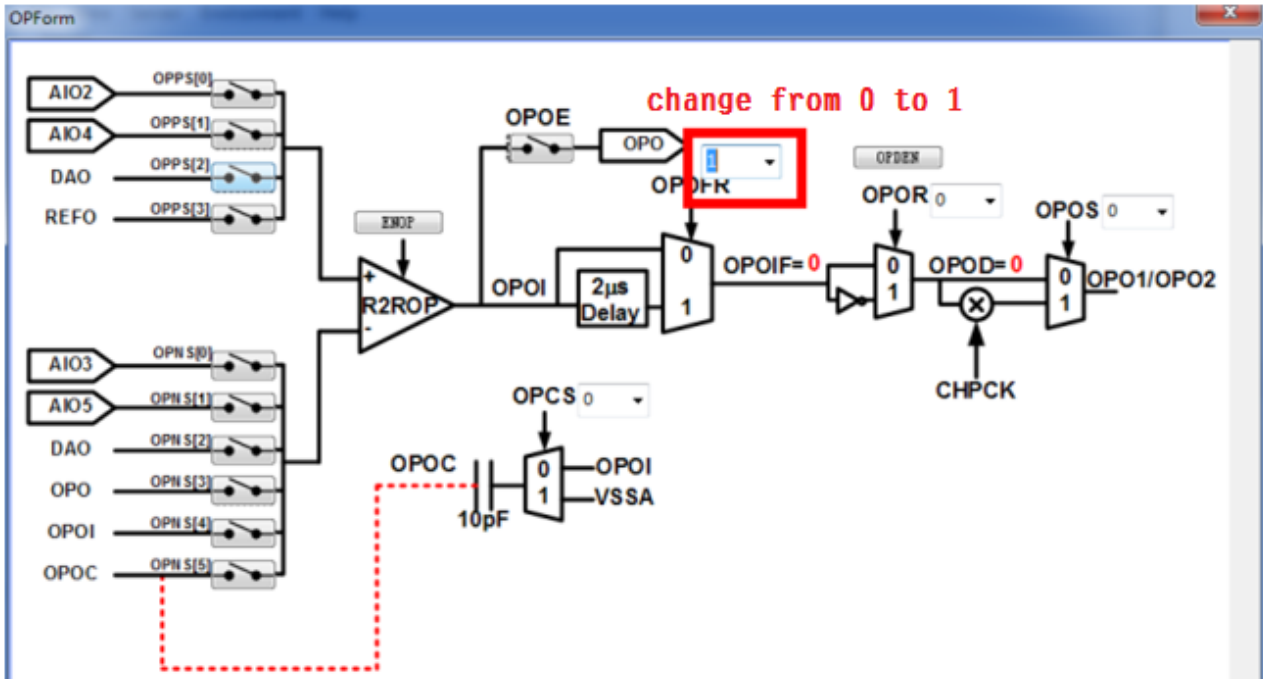
PS: CMP window is only available for HY16F18x Series products.

Name	Value	Address
▶ I2C		
▶ ADC		
▶ DAC		
▲ CMP	<b>Change from 0x0 to 0x50000</b>	
1010 0101 CMP1	0x0	1010 0101 0x41800
1010 0101 CMP2	0x50000	1010 0101 0x41804
▶ OPN		

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## 8.2.3. OPA (Operational Amplifier)

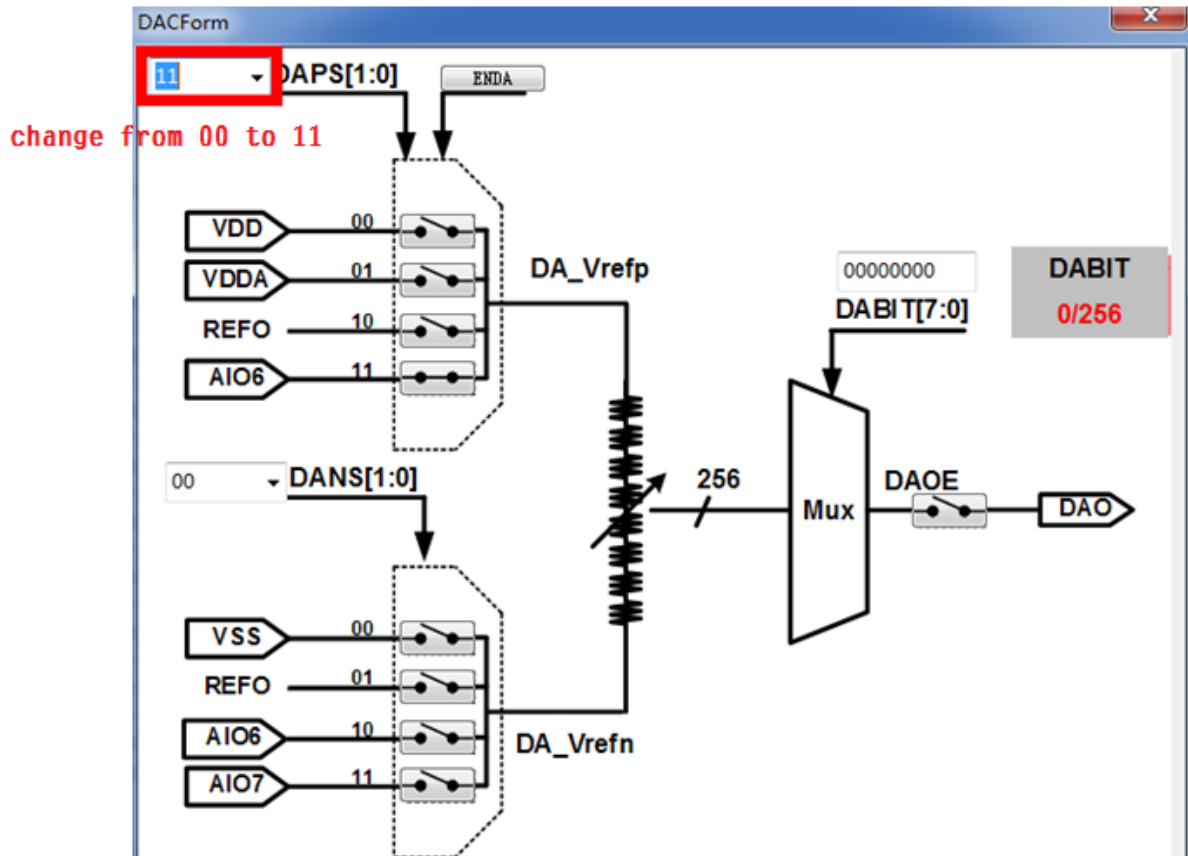
Change OPA window settings(Reference HY16F Series User Manual [18. Rail to Rail OPA] ) ,OPA Register value change synchronously, as shown below:



Name	Value	Address
▷ DAC		
▷ CMP		
▲ OPN	change from 0x0 to 0x8	
1010 0101 OPN1	0x8	1010 0101 0x41900
1010 0101 OPN2	0x0	1010 0101 0x41904

## 8.2.4. DAC (Digital-to-analog converter)

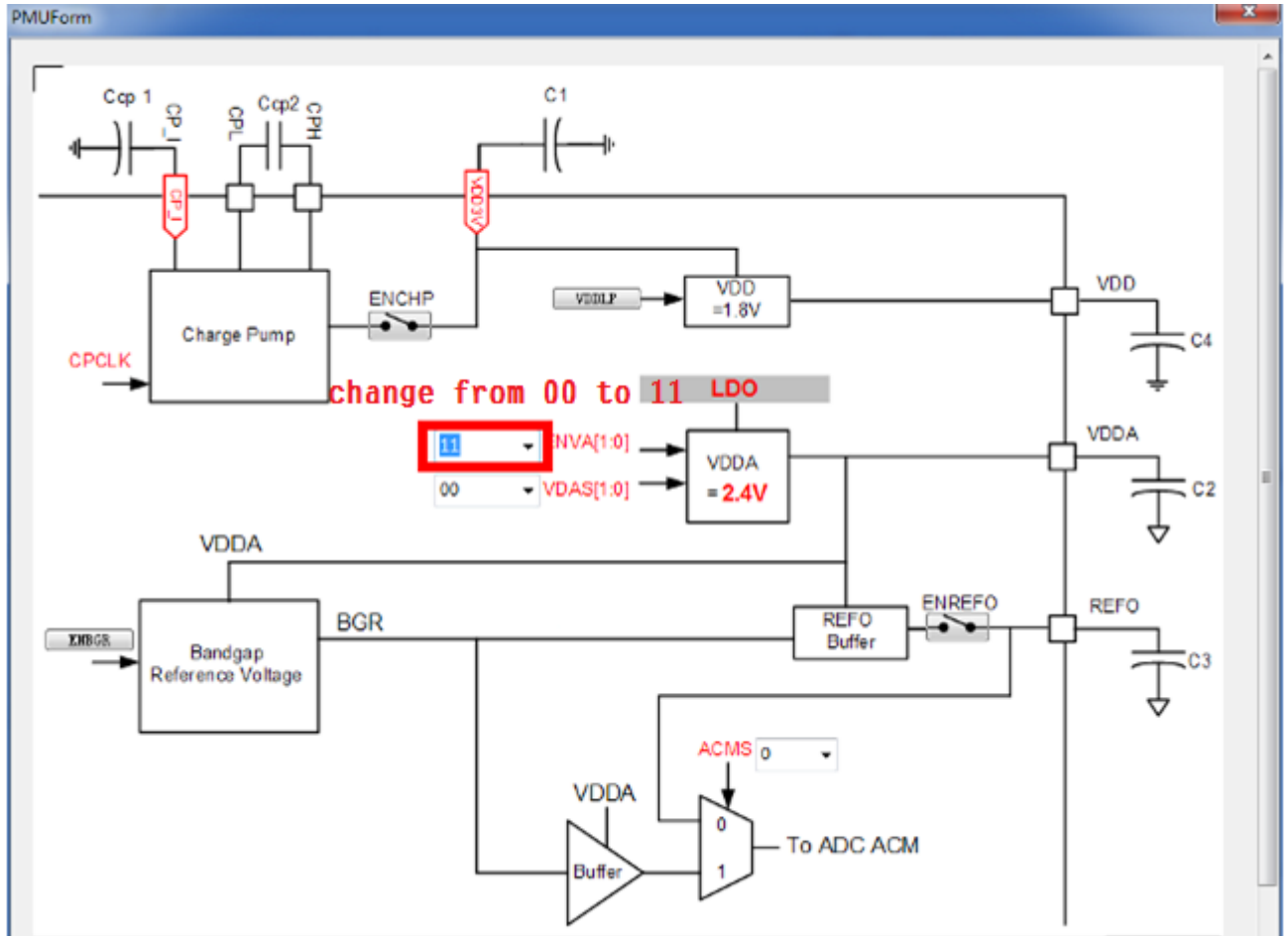
Change DAC window settings(Reference HY16F Series User Manual [19. DAC) ,DAC Register value change synchronously, as shown below:



SoC Registers		1010 0101 Registers	
Name	Value	Address	
▶ I2C			
▶ ADC			
▲ DAC	<b>change from 0x0 to 0x30</b>		
1010 0101 DAC1	<b>0x30</b>	1010 0101	0x41700
1010 0101 DAC2	0x0	1010 0101	0x41704

## 8.2.5. PMU (POWER MANAGEMENT)

Change PMU window settings(Reference HY16F Series User Manual [05. PMU] ),PMU Register value change synchronously, as shown below:

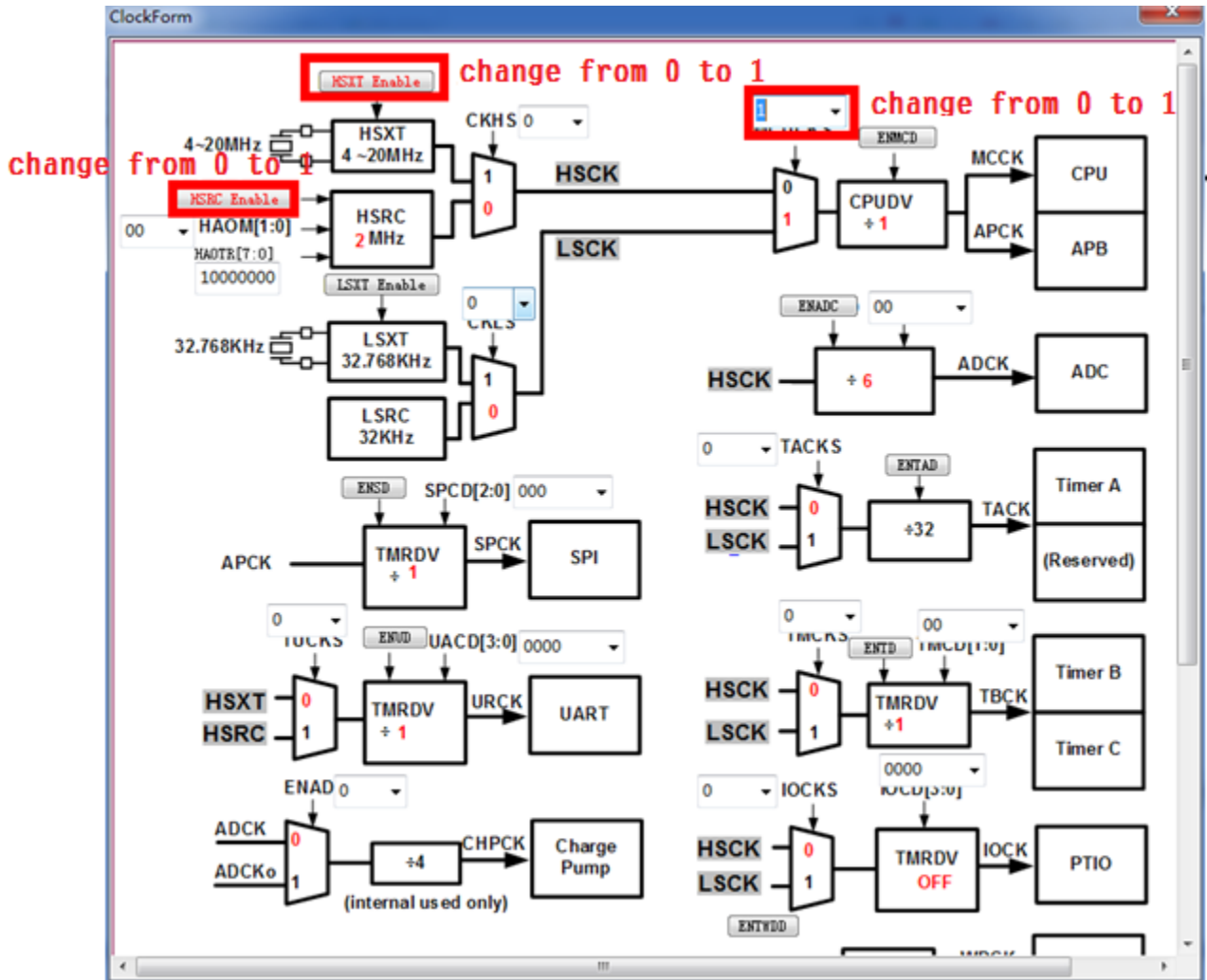


Name	Value	Address
INT		
SYS		
CLK		
PMU	<b>change from 0x0 to 0x30000</b>	
PMU1	<b>0x30000</b>	0x40400

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## 8.2.6. Oscillator, peripheral circuit Clock frequency source

Change clock window settings(Reference HY16F Series User Manual [06. CLOCK SYSTEM) ,clock Register value change synchronously, as shown below:



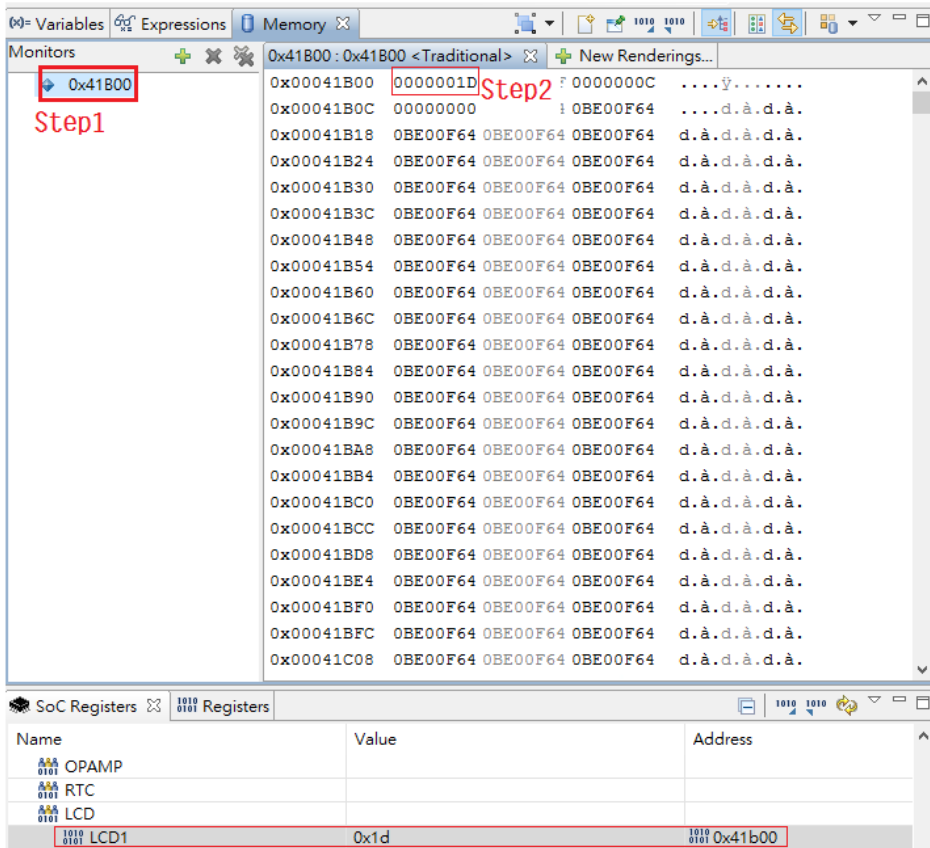
Name	Value	Address
▶ SYS		
▶ CLK	change from 0x0 to 0x3	
CLK1	0x3	0x40300
CLK2	0x80	0x40304
CLK3	0x1	0x40308
CLK4	0x0	0x4030c
▶ PMU	change from 0x0 to 0x1	

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## 8.2.7. LCD (For HY16F19X series only)

Step1 : Enter the address through memory window.

Step2 : Change the value, SoC Registers will immediately become a changed value.



LCD GUI changes immediately changed value.

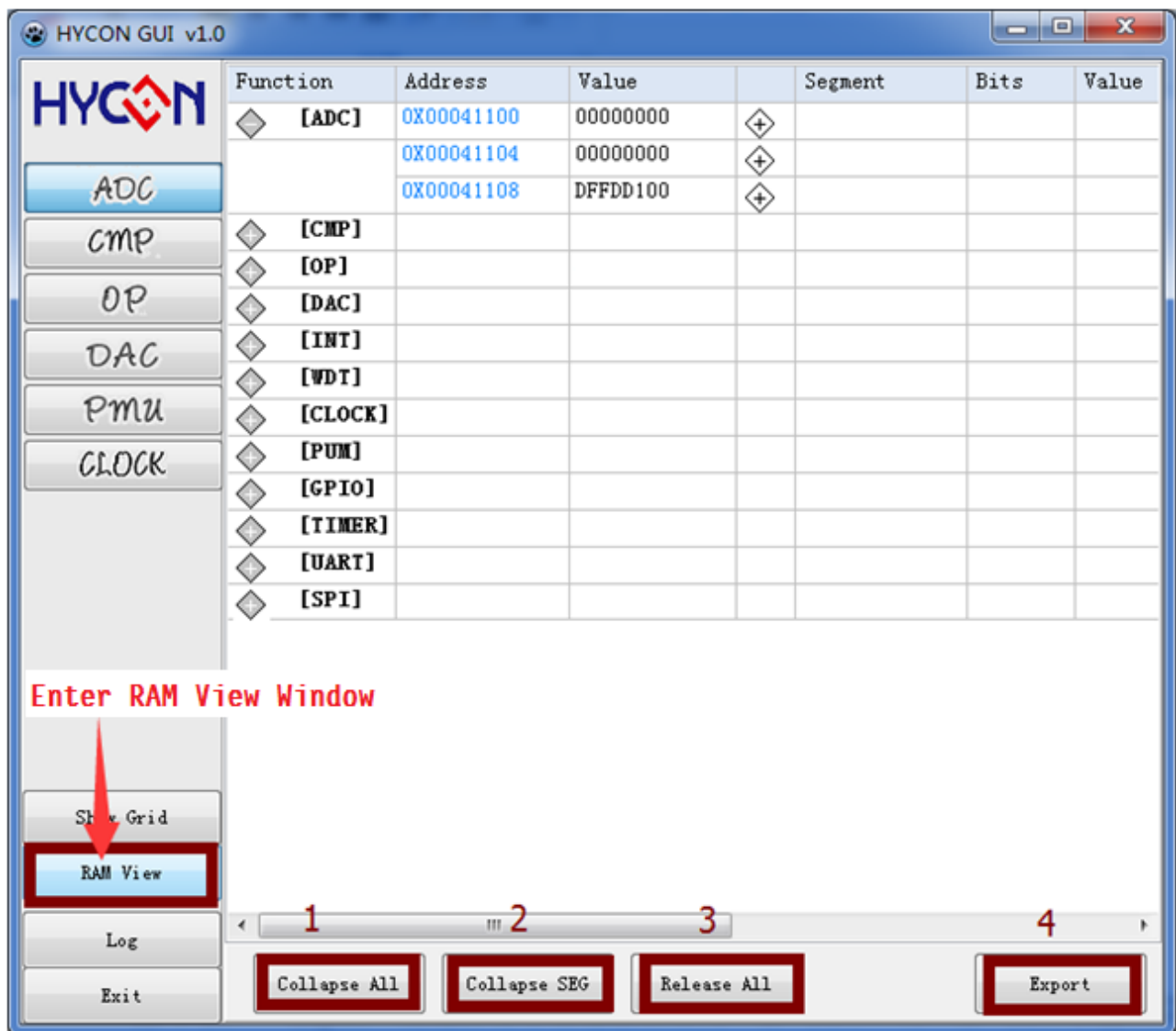
HYCON GUI v1.0

Function	Address	Value	Segment	Bits	Value	Description
[ADC]						
[CMP]						
[OP]						
[DAC]						
[INT]						
[WDT]						
[CLOCK]						
[PUM]						
[GPIO]						
[TIMER]						
[UART]						
[SPI]						
[LCD]	0x00041B00	0000001D	VLCD	0-1	01	"VLCD MODE"
			BEN	3	1	"VLCD BUFFER CONTROL"
			DUTY	4-5	01	"LCD OPERATING PERIOD SELECTION"
			FLIP	6	0	"REVERSE THE ORDER BETWEEN COM AND SEG"
			DSP	16-17	00	"LCD DISPLAY MODE"
			IDF	20	0	"LCD IDLE CONTROL FLAG"
	0x00041B04	00007FFF	PT6LEN	0-7	11111111	"PT6.X MODE SELECTION"
			PT7LEN	8-15	01111111	"PT7.X MODE SELECTION"
			PT8LEN	16-23	00000000	"PT8.X MODE SELECTION"
			PT9LEN	24-31	00000000	"PT9.X MODE SELECTION"
	0x00041B08	00000000	PT10LEN	0-1	00	"PT10.X MODE SELECTION"
			COMLEN	2-3	11	"COM5/COM4 MODE SELECTION"

### 8.3. "RAM View" and data output

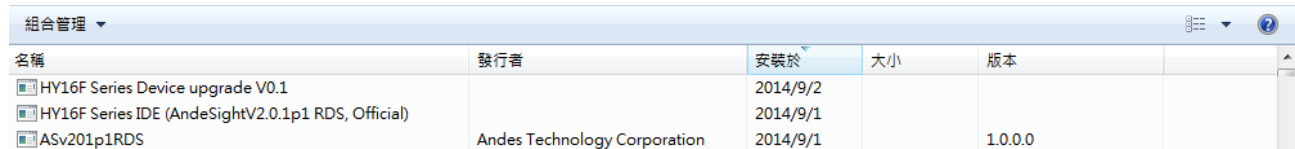
In Debug mode, Open task bar HYCON GUI, Move the cursor into the left window , Click "RAM View" button, "RAM View" window, as shown below.

- Item 1: "Collapse All" Collapse display register name.
- Item 2: "Collapse SEG" Expand the display register (address and value).
- Item 3: "Release All" Expand Show All registers  
(address, value, Segment, bits ,Value ,Description)
- Item 4: "Export" Select the register output is saved as ".h" file, The ".h" file placed in the "include" information on project folder. Include ".h", the program can be called directly in its function "Definelnit ()".



## 9. IDE Software Uninstalling

Enter “Add/Remove Windows Component” in the control console to remove the programs below.



名稱	發行者	安裝於	大小	版本
HY16F Series Device upgrade V0.1		2014/9/2		
HY16F Series IDE (AndeSightV2.0.1p1 RDS, Official)		2014/9/1		
ASv201p1RDS	Andes Technology Corporation	2014/9/1		1.0.0.0

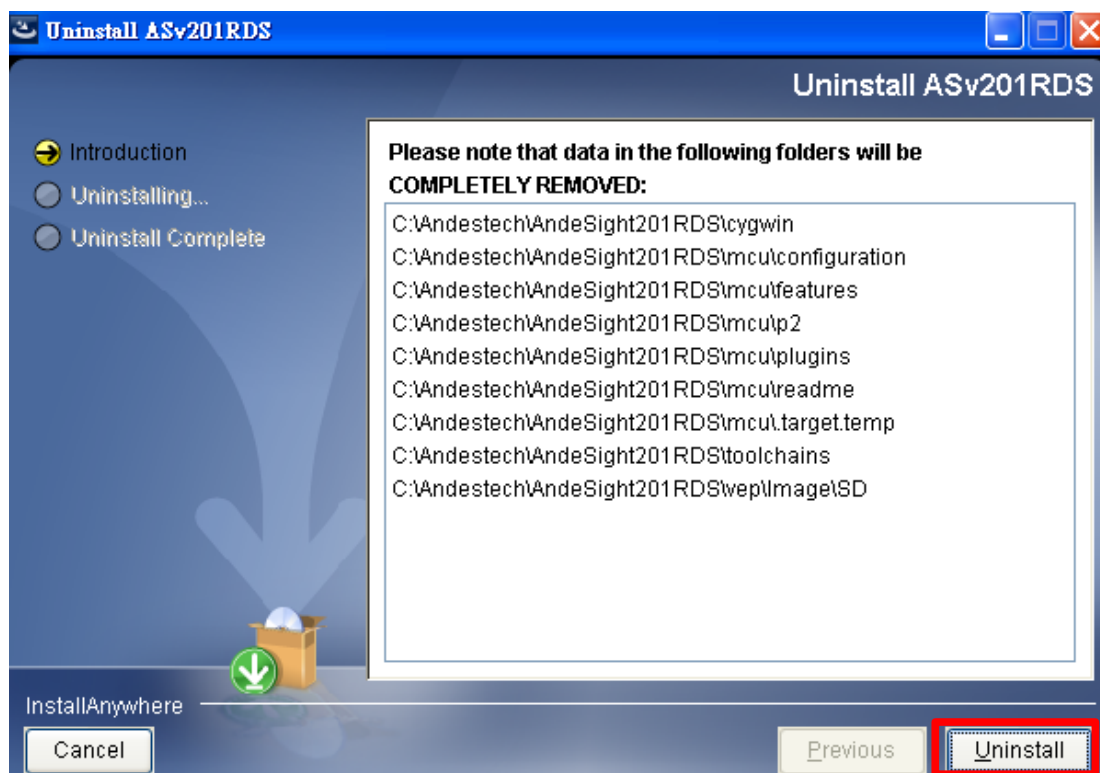
To remove HY16F Series Device, please select HY16F Series Device upgrade V0.1.  
To remove HY16F Series IDE, please select HY16F Series IDE (AndeSightV2.0.1p1 RDS).  
To remove AndeSight installation program, please select ASv201RDS before choosing program removal.

Or execute the starting list:

Andestech -> AndeSight v2.0.1 RDS Official -> Uninstall (Remove HY16F Series Device)

Andestech -> AndeSight v2.0.1 RDS Official -> Uninstall ASv201RDS(Remove AndeSight)

Upon seeing the screen below, select Uninstall to cancel the installation.



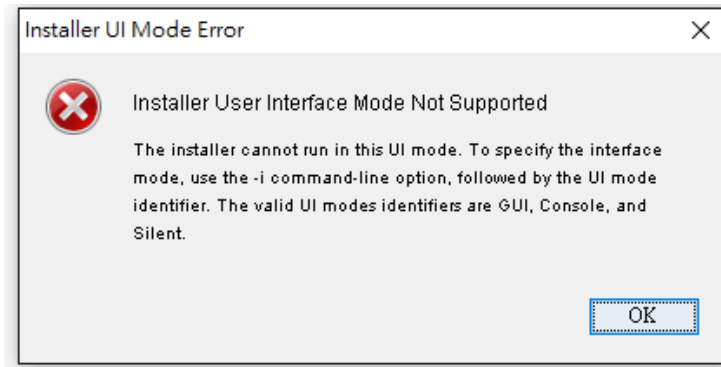


## 10. Installation Q&A

### 10.1. To solve the “Installer UI Mode Error “

AndeSightv201 can be operate normally at Win10. If installation problems were to appear, please refer to the descriptions and solutions below:

If Win10 were applied while executing installation in AndeSight V201, the message screen below will be presented, further leading to failure in installation



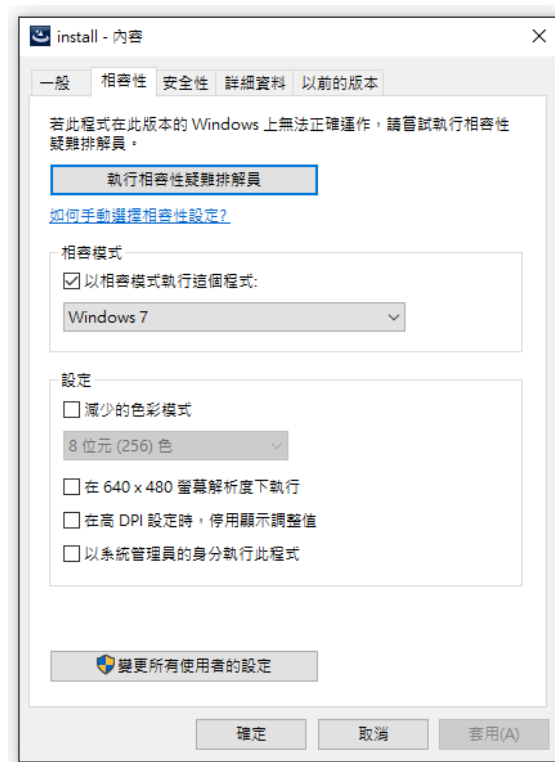
Solution Approach:

Step1: Below installation default path

C:\Disk1\InstData\VM is an installation execution file. Upon clicking the right button, the figure on the right will appear.

Step2: Please select “execute this program through compatible mode” in “compatible mode” and select “execute this program through system administrator identity” under “setting”. Choose to paraphrase after selecting and click confirmation.

Step3: Click installer execution file before repeating the installation process, so as to complete installation under Win10 normally.



## 10.2. How to close Win10 digital signature


### Error Message Record

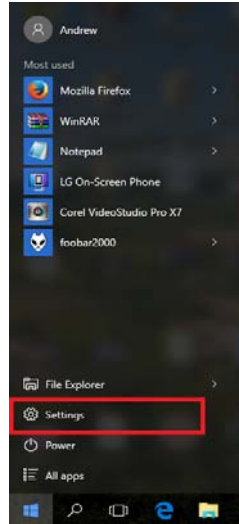
Building and debugging is OK in Windows 10 64-bit, but there is an issue in the installation, that is, we use lib usb (an open source USB driver) for ICE man, but it is not signed for Windows 10. Before users install AndeSight, they need to disable this check by the following steps:

**PS: The above message means that when installing AndeShape AICE driver might be failed , you need to manually close the digital signature and then perform driver installation again.**

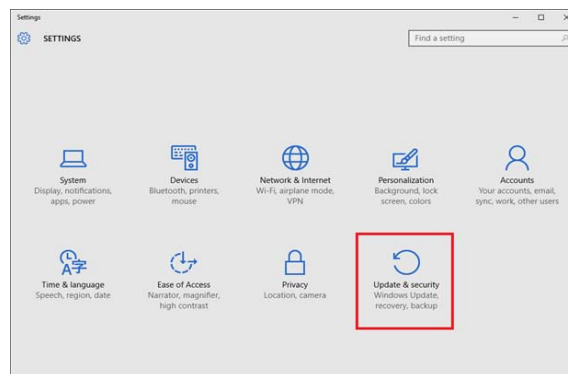
# HY16F Series IDE Software Instruction Manual

Solution Approach ( 8 steps ):

Step1: Press the lower left corner of the desktop Start menu  ,Select "Settings" option.(refer to the figure)



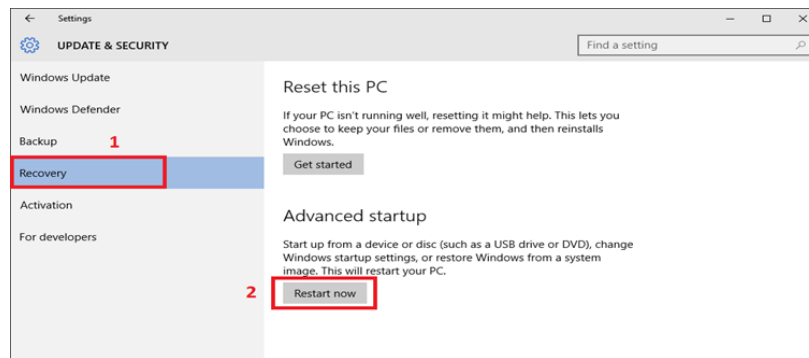
Step2: Click "Update & security" option



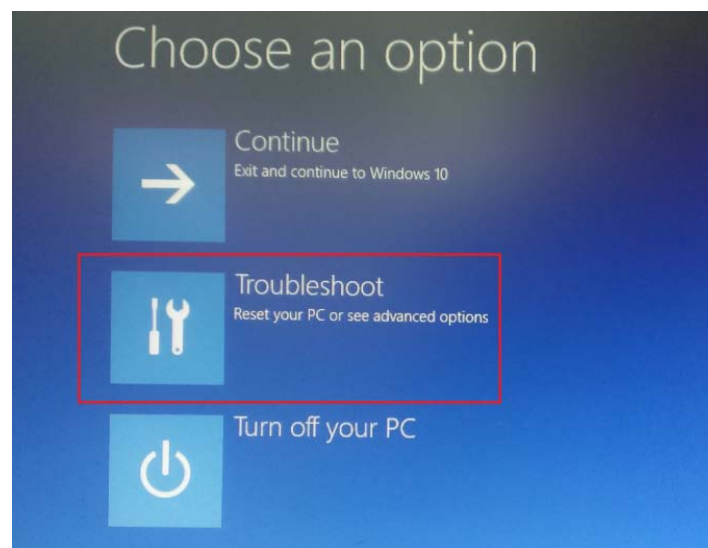
Step3:

1. First click on the left of the "Recovery" option.
2. Then click to the right of the "Restart now" button.

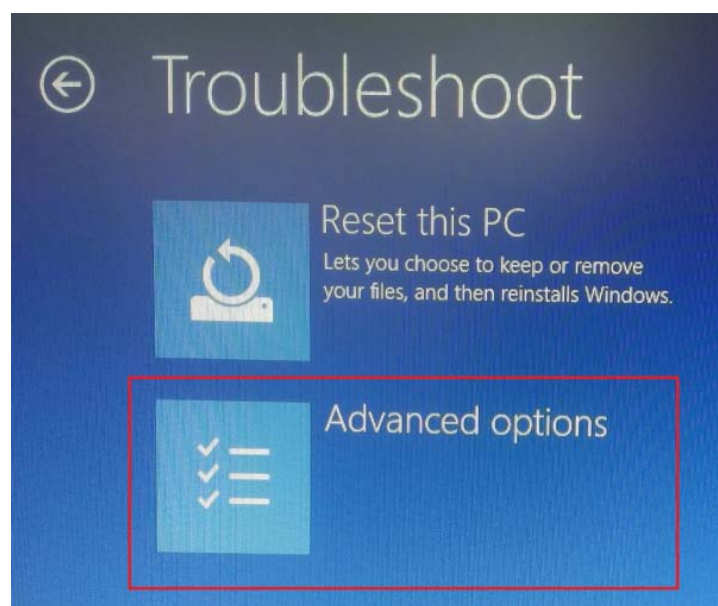
# HY16F Series IDE Software Instruction Manual



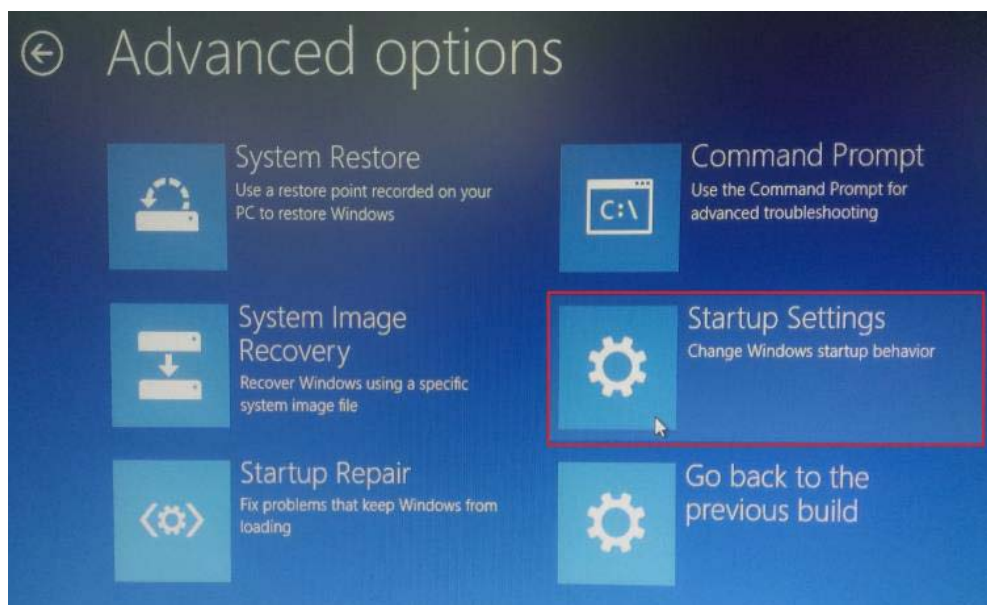
Step4: Select "Troubleshoot" option.



Step5: Select "Advanced options" option.



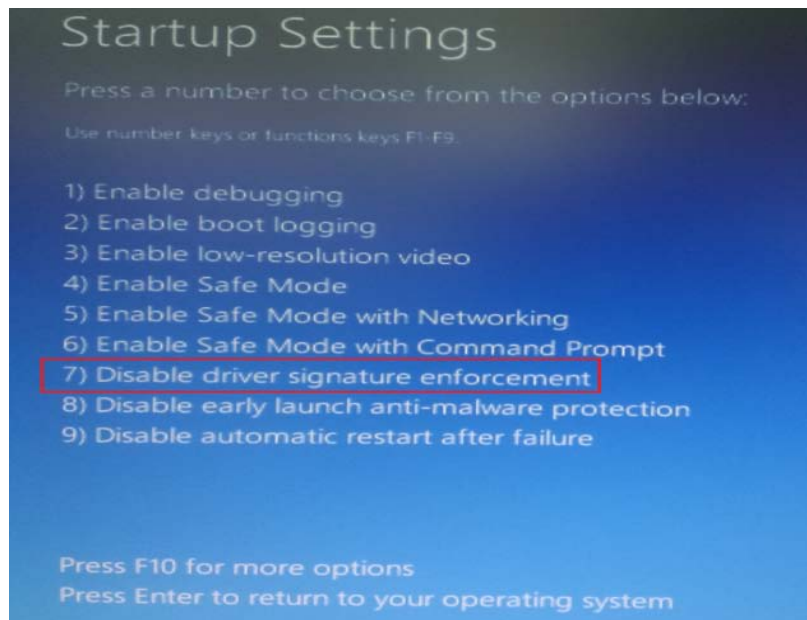
Step6: Select the "Startup Settings" option.



Step7: Press the "Restart" button.

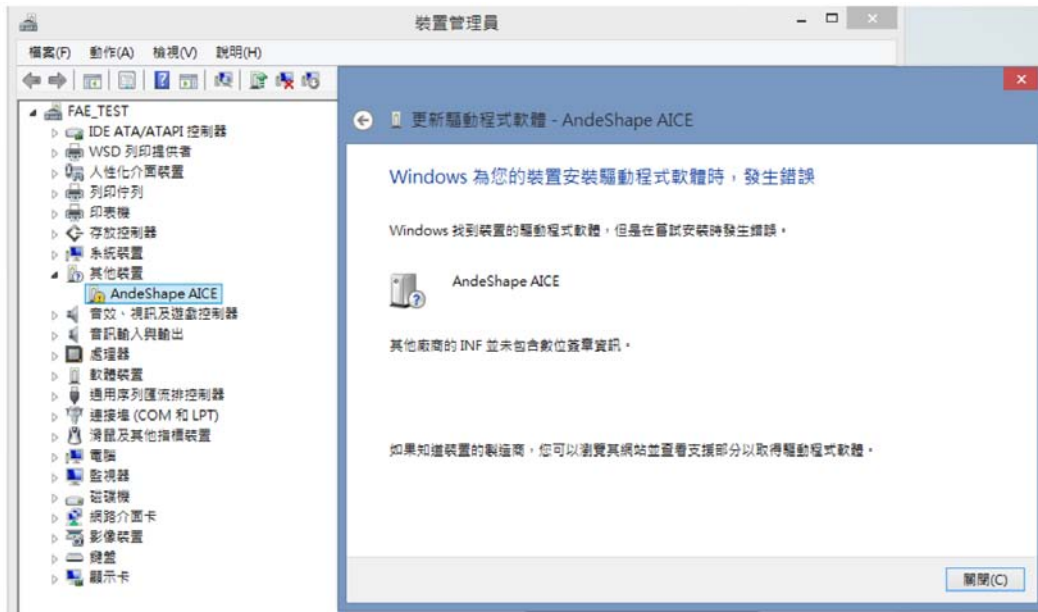


Step8: After the restart, then press the "F7", it means to disable drivers forced signature, then it will enter the desktop, users can refer to the past approaches to update or install Driver.



### 10.3. How to update AndeShape AICE method

Solve AndeShape AICE driver was not installed successfully:



1. Disable digital signature to install the driver.
2. In AndeShape AICE icon (right-click selected content, as shown below)

- Update AndeShape AICE steps as follows:



- Driver paths are as follows:  
C:\Andestech\AndeSight201p1RDS\ice\libusb-AndeShape-AICE-driver

## 10.4. Target can't connect

If Reset and Hold instruction is not set normally, chip cannot be connected. In this case, please refer to the “debug mode” in chapter 6.6 for setting.



# HY16F Series IDE Software Instruction Manual

## 11. Document Amendment Record

Greater differences in the document are presented below, with variation in punctuation and font excluded.

Version	Page Number	Amendment Summary	Date
V01	ALL	First Version Publication	2013/03/20
V02	ALL	Second Version Publication	2013/05/27
V03	ALL	Third Version Publication	2013/09/10
V04	ALL	Fourth Version Publication	2014/06/13
V05	5-13	With 3.IDE Software Installation Explanation Added	2014/09/05
V06	P31-32	With Installer UI Mode Error resolution approaches under Win8 Driver Added	2015/09/01
V07	P28~46	1. Modify the Chapter 10 Win10 installation AndeSight201p1RDS FAQ & solution. 2. Add Chapter 8 GUI manual.	2016/07/28