Version No.: CD/J SMS STC/20220406-01



MANUAL

For STC Display Programming

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1. CH340 Driver Setup

Find the "USB to TTL" file folder in computer, double click to open this file folder, click the "CH341SER" driver application and click INSTALL. (Please refer to following operation process, if the computer had installed the CH340 driver application, please ignore this step.)





2. Connection

Connect the programmer to computer by USB cable, connect the display with the programmer.



3. Open The STC Programming Software

Double click the "**stc-isp-15xx-v6.87p**" to open the STC programming application. (Please refer to

following figure)

stc-isp-15xx-v6.87P 11/20/2020 5:02 PM Application 1,614 KB

4. Program Download

4.1. MCU Type: STC15F2K60S2

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ICU Type STC15F2K60S2 V Pins Auto	Code Buffer EEPROM Buffer UART Helper HID Helper Keil ICE Settings MCU Selection/Price/Samples Demo Code Baudrate Tool 1	Timer Tool Delay Too
COM Port USB-SERIAL CH340 (COM6) Series Min Baud 2400 Max Baud 57600 ddress k 0000 Clear code buffer Open Code Fi k 0000 Clear EEPROM buffer Spen EEPROM HWQ-Qblon UBW Settings Encryption Downlo • Select system clock source(External Internal Input IRC frequency 110552 HHz O scillator high gain	n RX Buffer Capy Rx-Data TX Buffer TX Buffe	Send Fear (S) 1
Vekuline can program only metal table of the set o	HEX-Mode Clear Buffer Save Tx-Data Save Tx-Data SendFile :sendCRLL 3endData: AutoSend Cycle(ms) <u>100</u>	Close Tip Clear All Dat Auto Repea Interval 0
Hardware enable WDT after power-on-reset Watch-Dog-Timer prescal 256 WDT stop count while MCU in idle mode Erase all EEPROM data next time program cc Fill all EEPROM with FF P 20 power-on reset state Switch UART (FRO, TXD) from [P3.0,P3.1] to IP3.6 P3.71 P3.7 output P3.6% level	Point CUM Auto open after program TX 0 Open COM Enable U8U7 bridge RX 0 MCU type : STC15F2K6052 Reset 1000 million About this MCU: Timer0. Timer1 and Timer2 are usable 1000 UART2) SPL 40C cut PCA SPL 40C cut PCA 1000 million	
Jownload/Program Stop Re-Program		
Check MCU Notice Delay 3 ser		
Re-Count Infini		

4.2. The selection of COM port and baud

Click **Windows** and **X** buttons on keyboard, then left click the **Device Manager** by mouse, check the COM ports, the serial port number is the COM port with CH340, the maximum baud is 57600. (Please check following figures for operation process)

CapsLock A S D F G	Apps and <u>F</u> eatures
	Mo <u>b</u> ility Center
Shr Z X L V	Power Options
Cri 🛒 👫	Event <u>V</u> iewer
	System
	Device <u>M</u> anager
Click Windows and X buttons	Network Connections
	Dis <u>k</u> Management
📩 Device Manager	Computer Management
File Action View Help	Windows Terminal
	Windows Terminal (Admin)
Biometric devices	thinking terminal (Earling)
> 🚯 Bluetooth	
> 🧕 Cameras	
> 💻 Computer	
> 📥 Disk drives	
> 🔙 Display adapters	
> Firmware	
> 🛺 Human Interface Devices	
> 🔤 Keyboards	COM Part LIGB OF DIAL OUD 40 (COMS)
> 🧾 Memory technology devices	COMPOR USB-SERIAL CH340 (COM6)
> III Mice and other pointing devices	Min Doud outpat
> 🛄 Monitors	Min Baud 2400 V Max Baud 57600 V
> 🖵 Network adapters	
Ports (COM & LPT)	Address
USB-SERIAL CH340 (COM6)	0x 0000 Clear code buffer Open Code File
> 🚍 Print queues	
> Processors	0x 0000 Clear EEPROM buffer Open EEPROM File
> If Security devices	
Software components	



4.3. Setting of other options



4.4. Load the program file to upgrade



4.5. Click "Download/Program"



4.6. Turn on the programmer's switch, upgrade program.

If the programmer's switch is under power-on condition, click download program, you need to manually turn on the programmer's switch. If turn on the programmer's switch once and the programming software has no response, that needs to turn on the switch more times until the programming software responds.

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Code-Size 43A2i hecksum 10369K Fill-Buffer Clear-Buffer Save-Buffer Adjusting frequency: 22 127MHz (0.038%) Re-handfjaking_Successful [0.125] Current Baudrate: 57600 Ersening LCU Bash_OK1 [3.110] MCU DI: F409C569092C32 Programming user code_ Selease Proje: Release Help Get HDD-SN Beep ?assTimes 2 Reset Code-Size 43A2i hecksum 10369K Fill-Buffer Clear-Buffer Save-Buffer Self Fequency: 22 118MHz Adjusted frequency: 22 127MHz . Tim error: 0.039% Complete ji 2022-04-06 15:26:33) DLCDC6_SITC_DP32_06_None_KMH_15690_48V/hex	Programmer V2.0 WWW.clouddrive.tech Www.clouddrive.tech The switch must be reset to off state after program successfully	Turn the programmer's switch to ON(The position where has three vertical bars).
Set frequency: 22.118MHz	Code-Size 43A2i hecksum 1D3690(Fill-Buffer Clear-Buffer Save-Buffer Adjusting frequency: (0.038%) [1.109] Adjusted frequency: 22.127MHz (0.038%) Re-hand§haking Successful (0.125] [0.125] Firaining MUT Bish (X1 [3.110] MCU ID: F408C556092C32 Programming user code [3.110] [3.110] Image: State S	Beep ² assTimes 2 Reset
Complete 1/2022-04-06 15:26:33)	Dode-Size 43A2i hecksum 1D369(Fill-Butter Clear-Butter Save-Butter Set frequency: 22: 118MHz: -Adjusted frequency: 22: 127MHz: - Trim error: 0.038%	,
DICDC6_STC_DP32_05_None_KIM_1590_48V/hex	Complete][2022-04-06 15:26:33)	I
MOOD Jaco Times 2 Dead	D/CDC6_STC_DP3.2_05_None_KMH_1590_48V.hex	

If you still have queries after reading this manual, please contact us for technical support.

Support@clouddrive.tech

If you have business cooperation intention, welcome to contact us.

Jim@clouddrive.tech