

System Check

Laptop Requirements

- A Windows[®] Laptop (Windows 7 or Windows 8)
- MacBook running Windows (Parallels, VM Fusion, etc)
- Note: Administrator rights are needed for software and driver installation.

1. Install Keil MDK-ARM v5

Download and install the Keil MDK-ARM professional tool suite: <u>http://www2.keil.com/stmicroelectronics-stm32/mdk</u>

In the Pack Installer window, click the "Install" button to download the family packs for the STM32F0 and STM32L0 series

Device: STMicroelectronic	3			
Packs Examples		4	4 Devices Boards	
ack	Action	Description	Search: stm32	- ×
ARM::CMSIS	🔶 Up to date	CMSIS (Cortex Microcontroller Software Interface Standard)	Device /	Summary
Keil:MDK-Middleware	💠 Up to date	Keil MDK-ARM Professional Middleware for ARM Cortex-M based devices	STMicroelectronics	471 Devices
Keil:MDK-Network_DS	🕸 Install	Keil MDK-ARM Professional Middleware Dual-Stack IPv4/IPv6 Network for ARM	STM32F0 Series	66 Devices
Keil:STM32F0xx_DFP	🗇 Install	STMicroelectronics STM32F0 Series Device Support and Examples	STM32F1 Series	95 Devices
Keil:STM32F1xx_DFP	Install	STMicroelectronics STM32F1 Series Device Support, Drivers and Examples	STM32F2 Series	46 Devices
Keil:STM32F2xx_DFP	Install	STMicroelectronics STM32F2 Series Device Support, Drivers and Examples	• STM32F3 Series	57 Devices
Keil:STM32F3xx_DFP	🗇 Install	STMicroelectronics STM32F3 Series Device Support and Examples	+ As STM32F4 Series	110 Devices
Keil::STM32F4xx_DFP	🗇 Install	STMicroelectronics STM32F4 Series Device Support, Drivers and Examples	STM32L0 Series	23 Devices
Keil::STM32L0xx_DFP	😔 Install	STMicroelectronics STM32L0 Series Device Support and Examples	STM32L1 Series	69 Devices
Keil::STM32L1xx_DFP	🕸 Install	STMicroelectronics STM32L1 Series Device Support and Examples	* STM32W1 Series	5 Devices
Keil:STM32NUCLEO_BSP	🕸 Install	STMicroelectronics Nucleo Boards Support and Examples		
Keil:STM32W1xx_DFP	🕸 Install	STMicroelectronics STM32W1 Series Device Support and Examples		
IwIP=IwIP	🕸 Install	IwIP is a light-weight implementation of the TCP/IP protocol suite		
Oryx-Embedded::Middlew	🕸 Install	Middleware Package (CycloneTCP, CycloneSSL and CycloneCrypto)		
wolfSSL::CyaSSL	🕸 Install	Light weight SSL/TLS and Crypt Library for Embedded Systems		

Activation steps: From your desktop, right click on Keil uVision5 and select "Run as Administrator"; in File > License Management, Single-User License tab, click "Get LIC via Internet..." and fill out the web form in your browser.

Product Serial Number (PSN): U1E21-CM9GY-L3G4L



Customer Information		Computer ID CID:
Company.		GetUC via Internet
Product MDK-APM Contex-MQM0+258K for ST	License ID Code (JC)/Product-variant	Support Period Expires. Feb 2018
View Linesce D. Code (J.C.		Add UC Unwelled
the boards to come (both		

Once you receive the license by email, come back to the License screen and enter it in "New License ID Code (LIC)" box and click "Add LIC" button to finish.

2. Install STM32CubeMX

Download STM32CubeMX installer from www.st.com/stm32cube

Part Number	Version	Marketing Status	Order From ST
STM32CubeMX	4.9.0	Active	Download

- Locate the file in your download folder (or your default download location if different) and unzip the fileSetupSTM32CubeMX-4.8.0.exe to your location of choice. Run the STM32CubeMX installer (SetupSTM32CubeMX-4.9.0.exe)
- Java Run Time Environment 1.7 (version 1.7_45 or newer) is required. STM32Cube Installer will prompt user if Java download is required
- To complete the STM32CubeMX install you will be prompted to restart your computer.

After successful installation you will see a shortcut to the STM32CubeMX on your Desktop

3. Proxy Server configuration

Launch the STM32CubeMx

- Click on "Help"
- Open on "Updater settings"



File Project Window Help	
Image: Second	STM32
New Project	Cube
Load Project	
Help	

• Select the "Connection Parameters" tab

Updater Set	ttings	×
Updater Settin	ings Connection Parameters	
Proxy Serv	ver Type	
No Pro	эху	
O Use Sy	ystem Proxy Parameters	
Manua	al Configuration of Proxy Server	
Manual Cor	nfiguration of Proxy Server	
Proxy HTTP	P	Port 8080
Authentica	ition	
V Requir	re Authentication	
User Login	john.doe	
Password	•••••	
		Check Connection
		Check Connection
		OK Cancel

- Configure your internet access
 - Proxy Server Type
 - No Proxy
 - Use System Proxy Parameters
 - Manual Configuration
- Manual Configuration of proxy server
 - Contact your IT administrator for proxy type, HTTP address, and Port.
- Confirm Internet Connection
 - Click on "Check Connection"
 - Green CHECK Mark





4. Install STM32Cube Library Package

 Open "Install New Libraries" Menu->Help -> Install New Libraries

5	Help	F1	
P	About	Alt+A	
4	Check for Updates	Alt+C	
k	Install New Libraries	Alt+U	

• "Check" the STM32F0 and L0 packages

Release notes are displayed at the bottom.

Mair	Official release of STM32CubeF0 (STM32Cube STM32F070x6/xB and STM32F030xC derivativ Evil of a complete institution (does considered)	for STM32F0 Series), introducing		
STM	32CubeF0 Firmware Package V1.2.0 / December	10, 2014		1
chnic	al Description		Release	Patc
6	Firmware Package for Family STM32L1	1.1.0	1.1.0	
	STM32CubeL1 Releases			
	Firmware Package for Family STM32F0 (Size : 19.34 MB)		1.0.0	
	Firmware Package for Family STM32F0 (Size : 97.1 MB)		1.1.0	
	Firmware Package for Family STM32F0	1.2.1	1.2.1	
	STM32CubeF0 Releases			

Click on "Install Now"

5. Install ST-Link Utility

The ST-Link Utility allows typical flash program / erase / upload / download functions via the ST-LINK/V2 debugger, onboard the Discovery Board & Nucleo Boards. It also installs the Windows device drivers necessary for the ST-LINK/V2 debugger.

• Download ST-Link Utility application from, <u>http://www.st.com/web/en/catalog/tools/PF258168</u>.



Part Number	Version	Marketing Status	Order From ST
ST SW-LINK004	3.7.0	Active	Download

• Run STM32 ST-LINK Utility_v3.7.0.exe installer



Address: 0x0		Size: 0	0x0D44	Data Width:	32 bits 👻	Device Device ID Revision ID	STM32L0xx 64k 0x417 Rev Z	
Device Memory	@ 0x08000000	: Binary File				Flash size	64KBytes	
arget memory,	Address range	: [0x08000000	0x08000D44]		É			LiveUpd
Address	0	4	8	C	ASCII			
0x08000000	20001CB0	080083A5	080081D9	080081DB	* ¥f00.			
0x08000010	00000000	00000000	00000000	00000000				
0x08000020	00000000	00000000	00000000	080081DD	Ý			
0x08000030	080081DF	00000000	080081E1	080081E3	8áā			
0x08000040	0800460B	0800580F	08005CA7	08005D2F	.FX§\/]			
0x08000050	0800823B	08008225	08008383	0800822F	:%ff/			
0x08000060	0800838F	080083C1	080083C3	080083C5	fÅfÅfÅf			
0x08000070	080083C7	080083C9	00000000	080083CB	ÇfÉfĔf.			
0x08000080	00000000	080083CD	00000000	00000000				
0x08000090	080083CF	00000000	080083D1	080083D3	11Ñ1Ó1.	4		
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