

AN0012

Application Note

Rev 1.00 2021/09/17

# Installation of MM32 Series Keil pack

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Introduction

This application note describes how to install the Keil pack: obtain the Device model through three installation methods.

# 1 Obtaining and installing the Keil pack

In the process of product development, Keil is generally used to implement the development, programming and debugging of MM32 series programs. During the process of building the project, you need to select Device. At this time, you can add the relevant part number to Keil by installing the pack package.

The following introduces three ways to download the pack package and how to install the pack package and add the part number.

## 1.1 Install the pack package through Keil 's pack installation tool

Use Keil's Pack Installer tool to refresh the installation package and automatically install the MM32 Series pack.

The steps are broken down as follows:

A. Open Keil and click pack to install the package tool:



Installation of MM32 Series Keil pack

B. Click refresh:

🌺 Pack Installer	- D:\Keil_v531\Arm\Packs	5
File Packs Win	dow <u>H</u> elp	
Device: 2		
	Boards	
Search:	- × 🖻	
Device		1
🗄 🔗 ArmChi	ina	
🛨 🔗 Artery Te	ek	
🛨 🏈 AutoCh	iips	
🛨 🔗 Holtek		
🛨 🔗 Infineor	n	
🛨 🔗 Lapis Se	emiconductor	
🛨 🔗 Maxim		
🛨 🔗 MediaTe	ek	
🛨 🔗 Microch	hip	
🛨 🔗 Microse	emi	
🛨 🔗 MindM	otion	

C. After refreshing, the full series of MM32 chips will appear, with some gray part numbers that need to be downloaded.

Take downloading the pack of MM32F3270 as an example:

Pack Installer - E:\Keil\_v535\Arm\Packs File Packs Window Help Device: MindMotion - MM32F3277G9P 4 Devices Boards Packs Examples Search: • × 🖻 Pack Action 3 Device Specific 1 Pack Device Summary MindMotion::MM32F3270\_DFP 😑 🔧 MM32F3270 Series Install 15 Devices ٠ 51 Packs - Generic 4 Devices Alibaba::AliOSThings 🚸 Up to date 🖲 😤 MM32F3273G 5 Devices + Arm-Packs::PKCS11 € 😤 MM32F3277E 3 Devices Install + Arm-Packs::Unity Up to date
 Up to date E 😚 MM32F3277G 3 Devices ARM::AMP MM32F3277G7P ARM Cortex-M3, 120 MHz, 128 kB RAM, 512 kB ROM ARM::CMSIS MM32F3277G8P ARM Cortex-M3, 120 MHz, 128 kB RAM, 512 kB ROM Up to date ARM::CMSIS-Driver MM32F ARM Cortex-M3, 120 MHz, 128 kB RAM, 512 kB ROM 🚸 Up to date

Click on MM32F3270 Series to the specific part number. In the packs tab on the right, click

Install, there will be relevant scrolling prompts and download progress bars:



D. After the installation is successfully completed, you can see that the relevant part number turns green:

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#### AN0012

4

Pack Installer - E:\Keil_v535\Arm\Packs				
<u>File Packs Window H</u> elp				
2 Device: MindMotion - MM32F3277G9P				
d Devices Boards		Þ	4 Packs Examples	
Search: • X 🖻			Pack	Action
Device /	Summary		Device Specific	1 Pack
🖻 😤 MM32F3270 Series	12 Devices	-	MindMotion::MM32F3270_DFP	🚸 Up to date
😟 🔩 MM32F3273E	2 Devices		- Generic	51 Packs
😠 🔩 MM32F3273G	4 Devices	-	Alibaba::AliOSThings	🔶 Up to date
	3 Devices	-	Arm-Packs::PKCS11	🐵 Install
🖃 🔩 MM32F3277G	3 Devices	-	Arm-Packs::Unity	🚸 Up to date
MM32F3277G7P	ARM Cortex-M3, 120 MHz, 128 kB RAM, 512 kB ROM	-	ARM::AMP	🔶 Up to date
MM32F3277G8P	ARM Cortex-M3, 120 MHz, 128 kB RAM, 512 kB ROM	-	ARM::CMSIS	🚸 Up to date
4 MM32F3277G9P	ARM Cortex-M3, 120 MHz, 128 kB RAM, 512 kB ROM		ARM::CMSIS-Driver	🔶 Up to date

E. You can see the corresponding series in the Device list:

Software Packs	Jser   U/U++   ASm   Linker   Debug   Utilities	
Vendor: MindMotion Device: MM32F3277G9P Toolset: ARM Search:	Software Pack Pack: MindMotion.MM32F3270_DFP.1.0.5 URL: <u>http://www.mindmotion.com.cn/</u>	Downlos
<ul> <li>MM32F3270 Series</li> <li>MM32F3273E</li> <li>MM32F3273G</li> <li>MM32F3277G</li> <li>MM32F3277G</li> <li>MM32F3277G7P</li> <li>MM32F3277G8P</li> </ul>	<ul> <li>MM32F3270 Series</li> <li>Subfamily: MM32F3277G</li> <li>Frequency: 120MHz</li> <li>Memory: 512 kB Flash, 128 kB RAM</li> <li>Communication: up to 8 x UART, 3 x SPI, 2 x I2C, 3 x I2S, USB_OTG, CAN, SDIO</li> <li>Analog : ADC, DAC, COMP</li> <li>power saving mode:stop, sleep, and standby mode</li> <li>Other: RTC</li> </ul>	

### 1.2 Download and install the pack through the Keil website

Via https://www.keil.com//pack/ Or https://www.keil.com/dd2/pack/ link, browse

Browse and find related packs for the MindMotion series.

A. Click https://www.Keil.com/dd2/pack/ , the following interface appears:

Installation of MM32 Series Keil pack

https://www	v.keil.com/dd2/pack/	a	to	£≡	Ð	40
	MindMotion					
	> MindMotion Cortex-Mx Series Device Family Pack			BSP	DFP	1.0.6
	> MindMotion MM32F003 Series Device Support, Dr	ivers and Examples		BSP	DFP	1.0.3
	MindMotion MM32F0130 Series Device Support, D	nivers and Examples		BSP	DFP	1.0.3
	> MindMotion MM32F0270 Series Device Support, D	rivers and Examples		BSP	DFP	0.0.3
	MindMotion MM32F031 Series Device Support, Dr	ivers and Examples			DFP	1.4.0
	MindMotion MM32F032 Series Device Support, Dr	ivers and Examples		BSP	DFP	1.0.4
	> MindMotion MM32F103 Series Device Support, Dr	ivers and Examples		BSP	DFP	1.4.8
	> MindMotion MM32F103xCxE Series Device Suppo	ort, Drivers and		BSP	DFP	1.0.6
	MindMotion MM32F3270 Series Device Support, D	rivers and Examples		BSP	DFP	1.0.4

Take the MM32F3270 pack installation as an example, click Download to download. After downloading, click Install Package Hand

Bÿ Click https://www.Keil.com/dd2/ , the following interface appears:

https://www.keil.com/dd2/ as to th MindMotion Devices 144 > MM32F0010 Series Cortex-M0 Devices (2) > MM32F003 Series Devices 🙆 > MM32F0130 Series -M0 Devices (1) > MM32F0270 Series Devices 🕑 > MM32F031 Series C-M0 Devices 13 > MM32F032 Series Devices 🚯 > MM32F103 Series Devices (13) x-M3 ▼ MM32F3270 Series Devices 🔞 > MM32F3273E Devices 🙆 > MM32F3273G Devices 🙆 > MM32F3277E Devices 🚯 ₩ MM32F3277G Devices 🚯 MM32F3277G7P MM32F3277G8P

Find the specific Device "MM32F3277G9P" of the MM32F3270 series, and the following interface will appear.

Click "Download" to download.

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名称

MindMotion.MM32F3270\_DFP.1.0.5.pack

The installation dialog box pops up:

ack Unzip: MindMotion MM32F3270_D	OFP 1.0.5	
Welcome to Keil Pack Unzip		
Release 8/2021		
This program installs the Software Pack:		
MindMotion MM32F3270_DFP 1.0.5		
MindMotion MM32F3270 Series Device Supp	ort, Drivers and Examples	
Destination Folder		
E:\Keil_v535\Arm\Packs\MindMotion\MM3	32F3270_DFP\1.0.5	
E:\Keil_v535\Arm\Packs\MindMotion\MM	32F3270_DFP\1.0.5	
E:\Keil_v535\Arm\Packs\MindMotion\MM	32F3270_DFP\1.0.5	
E:\Keil_v535\Arm\Packs\MindMotion\MM	32F3270_DFP\1.0.5	Next>> Cancel

Select "Next >>" until the installation is complete.

## 1.3 Download and install the pack through the MindMotion website

Through MindMotion's official website, find "Download Information" and you will be redirected to the following link:

http://www.mindmotion.com.cn/download1.aspx

www.

#### AN0012

下载中心						
资料下载	下載中心					
下戦中心	MM32F00度39文档5					
MM32F00系列文档	名称	类型	语言	版本	更新日期	文件大
MM32F0130系列文档	MM32F003(q) 产品手册	PDF	简体中文	1.22	2020-05-15	1.52M
MM32F031系列文档	文档说明: 支持MM32F003 q版,	提供了详细的规格说明,	引脚定义,电气特性	及封装信息。		
MM32F032系列文档	MM325003(a) 用户手册	PDF	建体中文	1.19	2019-07-24	15.168
MM32F103系列文档	文档说明: 支持MM32F003 a版.	提供了完整的系统架构。	存储器和及所有外设	详细说明与寄存著	unit of unit	13.10
MM32F3270系列文档						
MM32L0系列文档	MM32F0010 产品手册	PDF	简体中文	1.04	2021-04-13	2.29M
MM32L3系列文档	文档说明: 支持MM32F0010A1N	, MM32F0010A1T, 提	供了详细的规格说明。	引脚定义, 电气	特性及封装信息。	
MM32W0系列文档	MM32F0010勘误表	PDF	简体中文	1.00	2021-04-20	279.14
MM32W3系列文档	文档说明: 支持MM32F0010系列	提供了该产品当前已知	的问题及解决方案。			
MM32SPIN系列文档	MAM3250010用点采码	PDE	98/#.dx*	1.00	2020-08-12	12 164
库函数和例程	文档说明: 支持MM32F0010A1N	MM32F0010A1T 18	17世纪的王法望的	加速制的功能加	小心学研究的に就な調察	DR.
Kits			1.1.8 V GARMANENTATION	12 1001010001110	A MALERINAL SHALL HAVE	Pace 4
Pack文件	MM32F0150原列文档					
支持工具	名称	举型	语言	版本	更新日期	文件力
应用说明	HIP	XŦ	-	dir0.	AC4711-1703	×117

#### Find and discover the pack files supported by MindMotion:

.mindmotion.com.cn/download.aspx?cid	=2546					
MindMotion Sec Selutions				中文	t   EN 请输入损	」素内容 Q
MM32 MCU			首页	关于我们	产品与服务	资料下载
Pack文件						
资料下载	Pack文件					
TRAC	名称	类型	语言	版本	更新日期	文件大小
	MM32系列 KEIL pack文件包	ZIP	简体中文	1.43	2021-04-26	15.31MB
MM32F00派列文档	文档说明: KEIL pack文件包支持MM	32全系列芯片在KEIL:	5.13及以上版本下的	手动安装。		
MM32F0130系列文档						
MM32F031販河100#8	MM32系列 IAR pack文件包	ZIP	简体中文	1.50	2020-12-15	1.86MB
HIMPET OF THE PARTY						
MM32F032系列文档	文極説明: IAR pack文件包支持MM3	2全系列芯片在IAR 7.	6及以上版本下的手i	动安装。		
MM32F032系列文档 MM32F103系列文档	文档说明: IAR pack文件包支持MM3	12全系列芯片在IAR 7.	6及以上版本下的手;	边安徽。		

Select http://www.mindmotion.com.cn/getfile.aspx?id=765 And download, unzip, and find

Go to the installation package: MindMotion.MM32F3270\_DFP.1.0.5.pack and install the required pack manually.

Installation of MM32 Series Keil pack

## 2 Summary

Through three ways of installing MindMotion's Keil pack, you can implement MindMotion in Keil. Full range of chips supported.

## 3Modification history

#### Table 1 Modification history

date	Version	content
2021/9/17	1.00	AN0012 Initial version release