

GigaDevice MCU Team	Version	8 Pages
	English V1.0	
	Name: GigaDevice HID IAP Programmer User Manual	

## **Gigadevice HID IAP Programmer User Manual**

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## **1. Introduction**

This user manual describes an application used to operate the flash or config GigaDevice MCUs with available USB. This software is a tool for the user to use MCUs with UI easily and it uses USB HID protocol for data transportation. With HID IAP tool, user can download the application program to the internal flash memory or secure chip and so on.

### **1.1. Purpose**

Besides a perfect stage for users to download application program easily, HID IAP Programmer also aims to provide wonderful and creative experience. The description was edited for a better service.

### **1.2. Target Customers**

HID IAP Programmer was developed for users who need download application program UI.

### **1.3. Jargon and Contraction**

- IAP: IAP is short for In Application Program, which means users can download codes without removes MCU from the PCB.
- USB: Universal Serial Bus (USB) connects more than computers and peripherals. It has the power to connect you with a whole new world of PC experiences.
- HID: Human Interface Device.

## **2. The Sketch of HID IAP Programmer**

### **2.1. Application**

HID IAP Programmer is an application used to operate the flash or config GigaDevice MCUs convenient.

### **2.2. Running**

This software is running on PC and compatible computers, and on platforms of WINDOWS. There's no need to setup the software, the only thing you need to do is to click the icon to operate the software.

## 2.3. Configuration

Software Requirements: Chinese or English Windows XP、Windows 7 and advanced operation systems.

Hardware Requirements: Available USB interface.

## 3. Using Details

### 3.1. Installment

If you want to use this software, you shouldn't worry about the installment. It is very easy for everyone. When you get the document, you just have to decompress the document, and find out the document named GD32 MCU HID IAP Programmer.exe (As shown in Chart 1) and place it in a file for your convenience. Then click the icon, open it and you are welcome to run it.

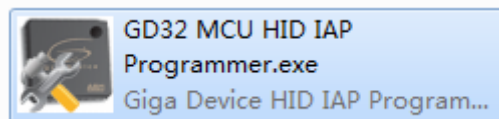
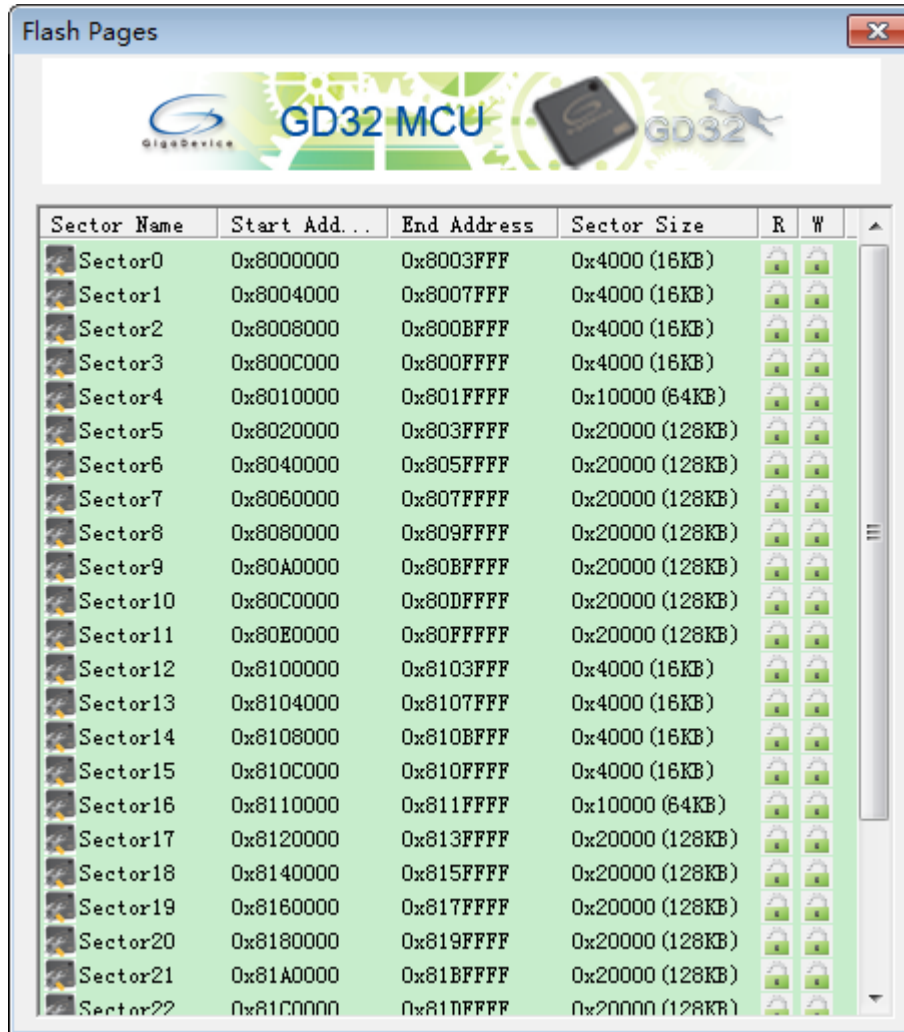


Chart 1

### 3.2. Details of Operation

#### 3.2.1. Flash status

Double click the index 0 "Flash" in the list can open a new dialog, as shown in Chart 2, it shows the Flash pages/sectors status, this dialog shows the page/sector count, start address, end address, page/sector size, read protection status and write protection status.



Sector Name	Start Address	End Address	Sector Size	R	W
Sector0	0x8000000	0x8003FFF	0x4000 (16KB)		
Sector1	0x8004000	0x8007FFF	0x4000 (16KB)		
Sector2	0x8008000	0x800BFFF	0x4000 (16KB)		
Sector3	0x800C000	0x800FFFF	0x4000 (16KB)		
Sector4	0x8010000	0x801FFFF	0x10000 (64KB)		
Sector5	0x8020000	0x803FFFF	0x20000 (128KB)		
Sector6	0x8040000	0x805FFFF	0x20000 (128KB)		
Sector7	0x8060000	0x807FFFF	0x20000 (128KB)		
Sector8	0x8080000	0x809FFFF	0x20000 (128KB)		
Sector9	0x80A0000	0x80BFFFF	0x20000 (128KB)		
Sector10	0x80C0000	0x80DFFFF	0x20000 (128KB)		
Sector11	0x80E0000	0x80FFFFF	0x20000 (128KB)		
Sector12	0x8100000	0x8103FFF	0x4000 (16KB)		
Sector13	0x8104000	0x8107FFF	0x4000 (16KB)		
Sector14	0x8108000	0x810BFFF	0x4000 (16KB)		
Sector15	0x810C000	0x810FFFF	0x4000 (16KB)		
Sector16	0x8110000	0x811FFFF	0x10000 (64KB)		
Sector17	0x8120000	0x813FFFF	0x20000 (128KB)		
Sector18	0x8140000	0x815FFFF	0x20000 (128KB)		
Sector19	0x8160000	0x817FFFF	0x20000 (128KB)		
Sector20	0x8180000	0x819FFFF	0x20000 (128KB)		
Sector21	0x81A0000	0x81BFFFF	0x20000 (128KB)		
Sector22	0x81C0000	0x81DFFFF	0x20000 (128KB)		

Chart 2

### 3.2.2. Download data

This page can download data to flash (As shown in chart 3). It allows user to download bin or hex file to MCU.

Click the “open” to select bin or hex file on the computer. Then, you must click the “OK” to activate the download. The software will erase the necessary pages/sectors before downloading the files.

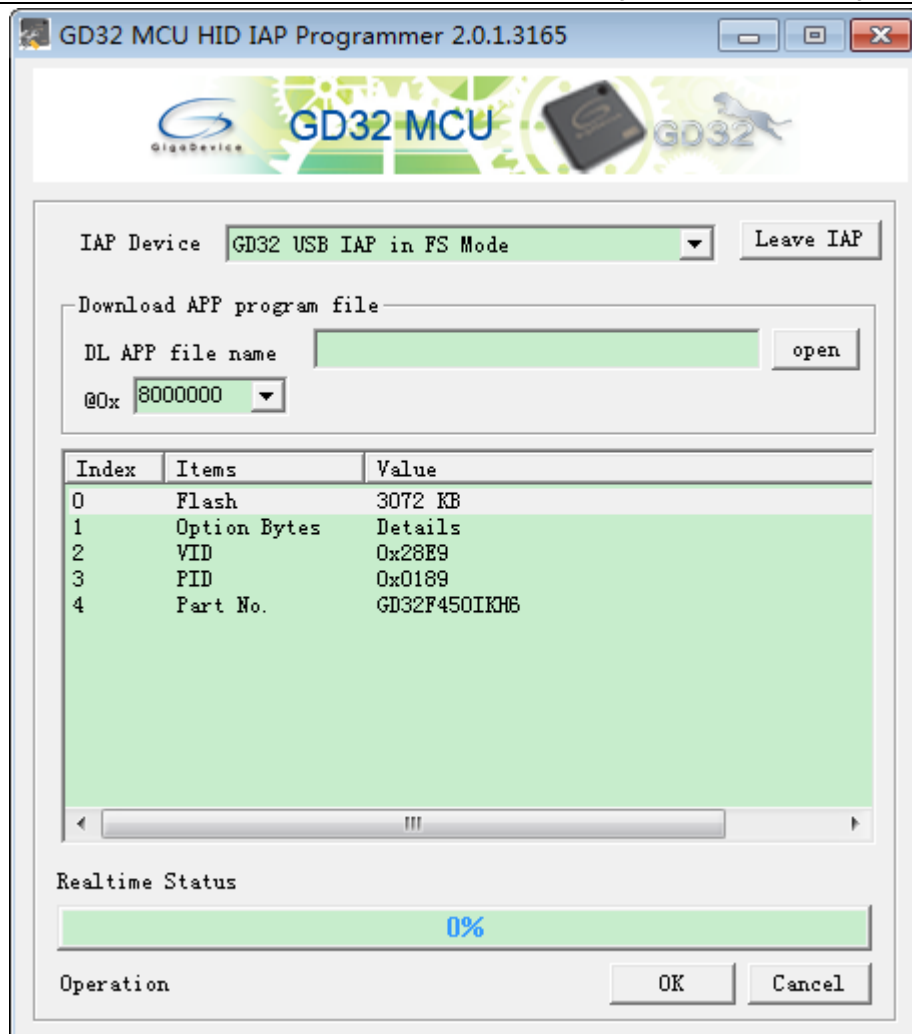


Chart 3

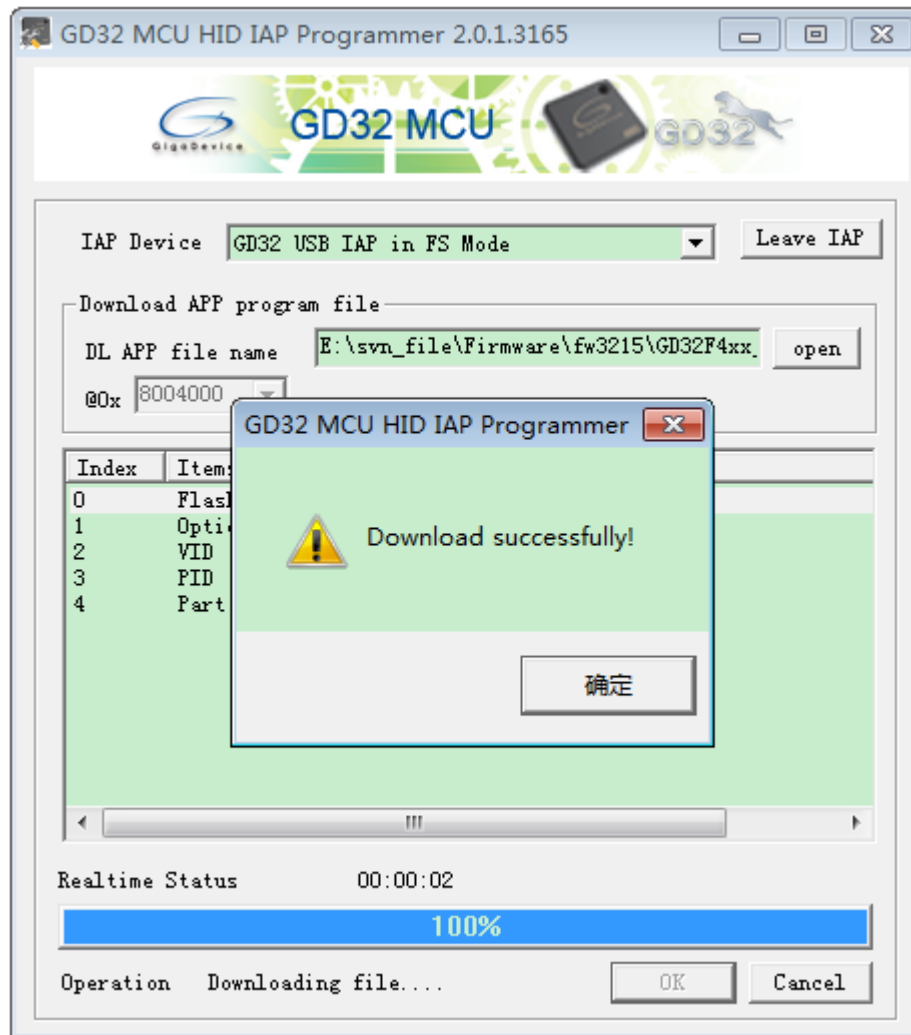


Chart 4

### 3.2.3. Config Option Bytes

Double click the index 1 “Option Bytes” in the list can open a new dialog. This dialog allows user to config option bytes with UI(As shown in chart 4). However, it is not yet supported to edit the option bytes.

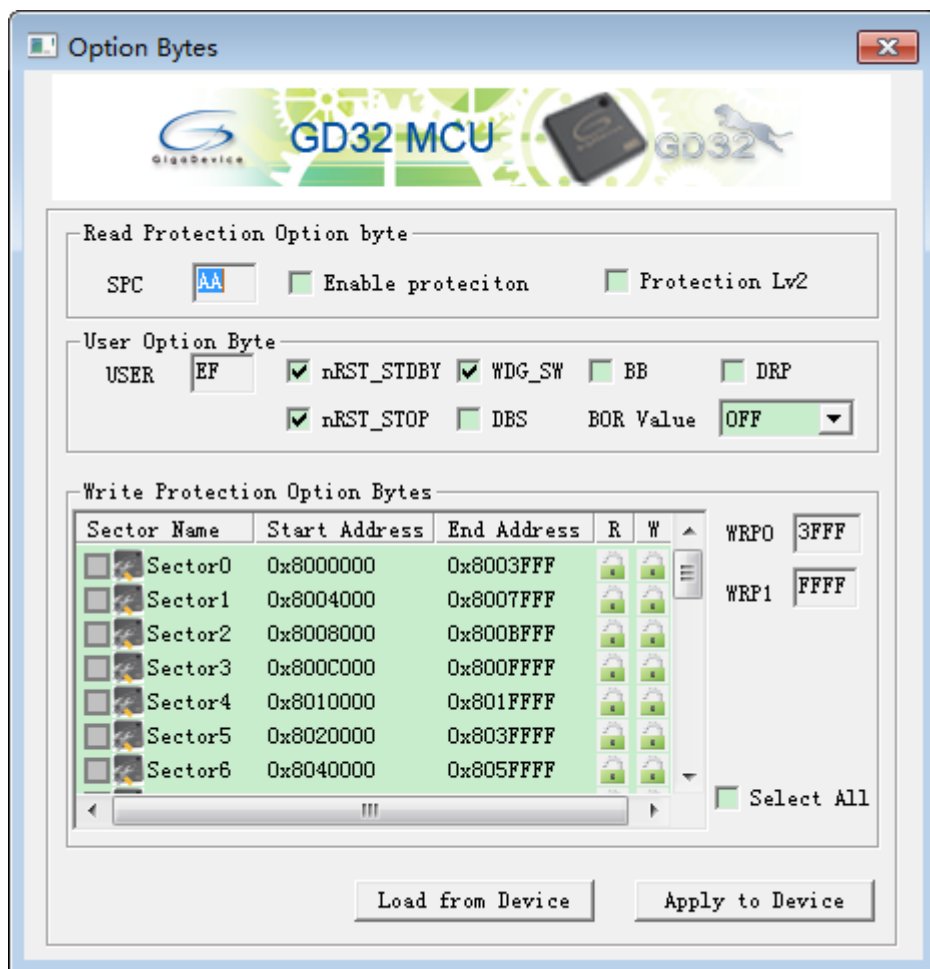


Chart 5