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Secure Writer User Manual V1.3

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1. Use environment

Before using Secure Writer, please confirm the system specifications of your computer.

- Microsoft Windows 10 Operating System.
- Microsoft .NET Framework 4.8 or above •

note : Download for Microsoft.NET Framework 4.8

2. Contents of Secure Writer

- (1) 1 set of Secure Writer.
- (2) USB cable with a set of transformers.
- (3) A copy of operation software.

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3. Overview of system functions

The appearance of iMO Secure Writer shown in Figure 3-1. It supports "online programming mode" (On Line mode) connected to a PC, and "offline programming mode" (Off Line mode) not connected to a PC. Secure Writer can support both SQ series encryption chips and SQ series general-purpose MCU programming.

In the online programming mode, we use USB Cable to connect the programmer to PC, and through the graphical user interface (GUI) software to operate.

In the offline programming mode, the programming data must be download to the writer through the graphical interface software on the PC site, the user can operate the writer without connecting to the PC.

The functions of this programmer mainly include:

- (1) Programming the contents of the file compiled by iMQ IDE into the Program Memory of the MCU, read and verify whether the burned data is correct.
- (2) The data in Program Memory could be read out by using the graphical user interface software, then you can stored as a file on the PC for viewing. When the user saves the file, he can set a password to keep it confidential.
- (3) Burn the key or USER DATA into SQ series encryption chips or products with Security Processor (eqSQ7515).
- (4) Stable and encrypted programming function that is not affected by power failure or reset (the function is limited to the Key and USER DATA).
- (5) The writer can provide On Line and Off Line mode programming.
- (6) Support programming with internal power supply (3.3V provided by Secure Writer) or programming with external power supply. It depends on the DUT VDD power selection switch

a. When internal power supply selected for programming, the output voltage is 3.3V, and the load current should be less than 300mA.

b. When external power supply selected for programming, the input voltage should be within the range of $3.3V \sim 5.0V$.

- (7) The message will be display on the screen of Secure Writer. When programming failure occurs, you can troubleshoot the problem according to the displayed message, shortening the troubleshooting time.
- (8) The AP (automatic programmer) connection interface of the Secure Writer has the design of noise prevention. The fully isolated signal design can isolate the AP side and Secure Writer side to prevent interference.
- (9) Compact size, Good Stability.

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Figure 3-1 Secure Writer appearance

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4. Secure Writer System Introduction

4.1 Hardware

The appearance of the Secure Writer shown as follows:



Figure 4-1 Secure Writer overlook



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No	name	Description
1	DUT power selection switch (DUT VDD)	DUT power selection INT position: 3.3V provided by Secure Writer EXT position: external power supply from PROGRAM interface, input range $3.3V \leq V_EXT \leq 5V$
2	Reset button (RESET)	Click to reset the system
3	Start button (START)	Click the button to start operation
4	Indicator light (BUSY/FAIL/OK)	Operation State : Yellow: busy (BUSY), Red: programming failed (FAIL), Green: burning success (OK)
5	Display screen	show status information
6	USB Dongle interface	Connect the USB Dongle
7	Computer/adapter interface (PC / POWER)	Connect computer or adapter
8	Automatic Programming machine interface (AP)	Connect to an automatic programming machine to increase programming efficiency
9	PROGRAM interface pin definition	DUT interface pin definition mark
10	DUT interface (PROGRAM)	Connect the DUT, the connection method refers to " PROGRAM interface pin definition "

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4.2 DUT connector

The pin definition of the DUT connectors are as marked on the sticker:



Figure 4-5 DUT Connector

Product	In the Court				Pin l	No				Note
line	Interface	5	6	7	8	9	10	11	12	
Secure ASIC (SQ7101)	I2C	I2C_SDA	I2C_SCL							
Secure ASIC (SQ7103)	SPI					spi_mosi	spi_miso	SPI_SCK	SPI_CS	
Secure ASIC (SQ7131)	I2C	I2C_SDA	I2C_SCL							
Secure ASIC (SQ7133)	SPI					spi_mosi	spi_miso	SPI_SCK	SPI_CS	
Secure ASIC (SQ7135)	SWI+SPI				SWI	spi_mosi	spi_miso	SPI_SCK	SPI_CS	SWI switch TX/RX
SQ7515	OCDE +I2C	I2C_SDA	I2C_SCL		DBG				RESET	DBG switch TX/RX
SQ7613 SQ7615 SQ7617 SQ7653	OCDE				DBG				RESET	DBG switch TX/RX

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4.3 Automatic programming machine connector

Automatic programming machine interface, connected to the automatic programming machine through a flat cable.



Figure 4-6 Automatic programming machine connection

4.4 Information Display

The OLED information display can show information such as hardware and software version, IC model, check code, operating procedure, and error code. It provides instant messages during operation. Users can know the status of the device under test or the programmer through the OLED information display.

4.4.1 Display Message

A. Power-On Message :

When the writer is power-on or the Reset button is pressed, it will be display sequentially

(1) Software and hardware version

FW Ver.	:	V	1.20
HW Ver.	:	Η	3.1

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(2) Action Result

Program Success



Program Failed



(3) Standby screen: After action, it will automatically switch to the standby screen

Data	CRC :	0X0000
FW	CRC:	0X1934

Under normal operation, every time the programming button pressed to perform programming, the OLED display will show the programming result. If an error occurs, the corresponding error message will display.

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4.4.2 Error Message List

Error Message	Description
Self-Test Fail	Writer self-test failed
Mem CRC Fail	Internal data read back verification failed
Power Fail	Writer system power supply is abnormal
DUT PWR Fail	The power supply of the object under test is abnormal. Please confirm whether the power supply of DUT selected correctly. If you choose an external power supply, please confirm that the voltage range is 3.3V~5V
Action Fail	Failed to perform action
Out of Limit	Burning Quantity Exceeded
Blank Check Fail	Blank check failed
Erase Fail	Erase failed
Write Fail	write failed
Verify Fail	verification failed
OCD Password Error	OCD password error

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5. Software installatio	n	
5.1 Procedure of Insta	II	
Step 1. Double-click S	ecureWriter_Setup.exe to execute the insta	Illation program
	SecureWriter_Setup_V 1.00 (20230111).exe	
	Take Secure Writer Setup 1/10 as an exam	ole

Step 2. Set the installation path. The default path is C:\SecureWriter. If there is a previously installed version in this path, it will not ask the path again.

Setup - SecureWriter	<u>ः</u>	- 0	
Select Destination Location			
Where should SecureWriter be installed?		(È
Setup will install SecureWriter into the following	folder.		
To continue, click Next. If you would like to select a diffe	erent folder, did	k Browse.	
C: VMQ\SecureWriter		Browse	
At least 12.8 MB of free disk space is required.			

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Step 3. After choosing whether to create a shortcut icon on the desktop, press "Next".

		_	
Setup - SecureWriter	_		×
Select Additional Tasks Which additional tasks should be performed?			
Select the additional tasks you would like Setup to perform while in SecureWriter, then click Next.	stalling		
Additional shortcuts:			
Create a desktop shortcut			
< <u>B</u> ack <u>N</u> e	xt >	Can	cel

Step 4. Press "Finish" button to complete the installation.



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5.2 Secure Writer Firmware Upgrade

Click Help / Secure Writer Firmware Upgrade, to upgrade the firmware

😔 il	MQ Secure \	/riter —		×
File	Read IC	Help		
		Device Name : Secure Writer Device IAP Version : B_0.31 File Name : IAP_SecureWriterV3_V1_00.bin		
		CRC16:0x0AFA		
		Load File Upgrade		
			0	Close
iMQ Si iMQ Si Secure Enter I	ecure Writer ecure Writer e Writer Softw Firmware Upg	Dis-connected. Connected. are Version = V 1.00 (20220705), Firmware Version = V 1.00 (20220705), Hardware Version = V 0.31 rade Mode		

This function will update the firmware of the Secure Writer machine. The updated file and whole transmission process are in encryption. The update steps are as follows:

Click Help / Secure Writer Firmware Upgrade

2. The Secure Writer enters the firmware upgrade mode:

Hold down the Start Button continuously, then plugin power cable or reset the machine until yellow light is on. After successfully entering upgrade mode you may release the Start Button, and software screen will display "Enter Firmware Upgrade Mode" message

3. Load File:

Load the firmware file to upgrade. Software will check the file format and version. If the format is wrong or the version is older than the current version, it will not load file successfully.

4. Upgrade:

After load file successfully, the file name and CRC16 will be display on the top of the screen. Confirming whether it is correct, then click the Upgrade button to update

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firmware. During the update process, please do not turn off the power or do other operations that will affect the update. Wait until the update is complete, Secure Writer will reset automatically.

🕺 iMQ Secure Writer	_		×
File Read IC Help			
Device Name : Secure Writer Device IAP Version : B_0.31 File Name : IAP_SecureWriterV3_V1_00.bin CRC16 : 0x0AFA			
Load File Upgrade			
Upgrading Do not turn off the power or do other operations			
		Clos	е
iMQ Secure Writer Dis-connected. iMQ Secure Writer Connected. Secure Writer Software Version = V 1.00 (20220705), Firmware Version = V 1.00 (20220705), Hardware Version = V 0.31 Enter Firmware Upgrade Mode			

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5.3 Software Uninstall

In the installation directory, you can find the removal program "unins000.exe", and execute it directly to remove the Secure Writer software.

<mark>〕 ↓</mark> 檔案 常用 共用	管理 SecureWriter 檢視 應用程式工具			— [× ~ ?
	機 > 本機磁碟 (C:) > iMQ > SecureWriter		ٽ ~		
 ▲ 株機 ③ 3D 物件 ◆ 下載 ☆ 文件 ♪ 音樂 ■ 眞面 ■ 圖片 圖 影片 " 本機磁碟 (C:) ■ 新增磁碟區 (D:) 〒 twfs01 (\\imqad01 ④ 網路 	名稱 ▲ BouncyCastle.Crypto.dll ④ HidSharp.dll ⑥ MaterialDesignTolors.dll ◎ MaterialDesignThemes.Wpf.dll ◎ Newtonsoft.Json.dll ② SWriter.exe ● unins000.dat ③ unins000.exe ◎ WpfUsbMonitor.dll	修改日期 2021/2/16下午 09:36 2021/2/22上午 10:34 2021/2/22上午 10:34 2021/2/22上午 10:34 2022/7/5上午 10:18 2022/7/5上午 10:31 2022/7/5上午 10:30 2021/3/24上午 11:39	類型 應應用用用用用用用用用用 程程式式式 支式式式式 DAT 程程式 度 の 用 程 程 式 式 点 流 充 施 應 應 用 用 程 程 程 式 式 式 式 式 式 式 式 式 式 式 式 式 式 式	大小 2,560 KB 237 KB 293 KB 7,547 KB 684 KB 468 KB 3 KB 1,236 KB 36 KB	
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6. Function Description

6.1 User Interface description

The software operation interface divided into the following parts:

- (1) Main operation area: Main screen presentation, related settings, and functional operations.
- (2) Toolbar menu: Provide File, Read IC, Help menu
- (3) Log window: All related logs of the operation message will be display here.
- (4) Writer connection icon: When the software detect the Secure Writer connected, this icon will be display.
- (5) **Progress bar:** When executing some time- consuming actions, the progress bar will display the progress of the action.
- (6) **Page marking and switch:** The middle dot marks the current page position, the left arrow can switch back to the previous page, and the right arrow can switch to the next page.



6.2 IC configuration and programming function

In order to make the programming process more conveniently and completely, 4 guiding pages are used for user. After the user completing the settings of each page sequentially, you can switch to the next page for series of settings, and finally going to the Programming page. It means that the setting is completed, and you can directly perform programming or other actions.

Page 1– Select Source: Select the source of IC configuration

Page 2– IC Configuration: select the IC to be programmed and set the configuration of the IC

Page 3– Writer Option: Select the settings for Secure Writer burning

Page 4– Programming: perform programming or other actions

The functions and options of each page, we describe in detail below:

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iMQ Technology Inc. No. : TDUM01- TW003-EN Name: Secure Writer User Manual Version : V1.3 6.2.1 Select Source Page Select source for IC configuration 🥺 iMQ Secure Writer \times File Read IC Help Select Source New IC Configuration Load Configuration 000 iMQ Secure Writer Connected. Secure Writer Software Version = V 1.00 (20220705), Firmware Version = V 1.00 (20220705), Hardware Version = V 0.31

New IC Configuration:

The function is the same as File/New to create a new IC configuration, and jump to the IC Configuration page for series of settings (refer to 6.2.2 IC Configuration, 6.2.3 Writer Option, 6.2.4 Programming for details).

Load Configuration :

The function is the same as File/Load File. It can load the IC configuration file that has been set and saved with New IC Configuration, so that you can use the verified setting items; or you can jump to IC according to the difference in the loaded file content. On the Configuration page or Programming page, make minor modifications later, and then Programming IC (refer to 6.3 File function for details).

6.2.2 IC Configuration Page

(1) Secure ASIC (SQ7101/SQ7103/SQ7131/SQ7133/SQ7135):

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- Load User Data(*) : Load the User Data File to be programmed.
- Lock Configuration: If checking this item, the action of Lock Configuration will execute during programming.
- Lock Key Memory: If checking this item, the action of Lock Key Memory will execute during programming.
- Lock Small Zone: If checking this item, the action of Lock Small Zone will execute during programming.

* : The User Data File for SQ710x/SQ713x is generated by the Tool/Program Device page from iMQ Secure Starter-Kit program.

🕺 iMQ Secure \	Writer	_	×
File Read IC	Help		
	IC Configuration		
	IC Type :		
	Load User Data		
	Lock Configuration		
	Lock Key Memory		
	Lock Small Zone		
<	0 0 0		$\left \right\rangle$
iMQ Secure Writer Secure Writer Softw	Connected. ware Version = V 1.00 (20220705), Firmware Version = V 1.00 (20220705) , Hardware Version = V 0.3	1	

(2) SQ general-purpose MCU (SQ7613/SQ7615/SQ7617/SQ7653) :

- Load FW File: Load the FW File to program. (*1)
- Load User Data: Load the User Data File to be programmed.(*2)
- **OCD Permanent Disable:** If checking this option, the OCD channel will be permanently closed after programming the IC
- **OCD Password:** If checking this option, you can set the OCD password, the password must be hexadecimal and the length is 32 characters.

*1: The FW File for SQ general-purpose MCU generated by iMQ i87-IDE program. (MQ-Link)

*2: User Data File for SQ general-purpose MCU edited by user. At present, only SQ7617/SQ7653 has EEPROM in SQ general-purpose MCU.

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: TDUM01- TW003-EN	Name: Secure Writer User Manual	Version: V1.
		I
oiMQ Secure Writer		- 0
File Read IC Help		
	IC Configuration	
IC Type :	SQ7653 -	
Load FW	File	
Load Use	r Data	
	Permanent Disable	
	Password	
<	0 0 0	
IMQ Secure Writer Connected Secure Writer Software Version	1. on = V 1.00 (20220705), Firmware Version = V 1.00 (20220705) , Hardwar	re Version = V 0.31

(3) MCU with Security Processor (e.g. SQ7515)

- Load FW File: Load the FW File to program. (*1)
- Load User Data: Load the User Data File to be programmed.(*2)
- **OCD Permanent Disable:** If checking this option, the OCD channel will permanently closed after programming the IC.
- OCD Password: If checking this option, you can set the OCD password, the password must be hexadecimal and the length is 32 characters.
- Lock Configuration: If checking this item, the action of Lock Configuration will execute during programming.
- Lock Key Memory: If checking this item, the action of Lock Key Memory will execute during programming.
- Lock Small Zone: If checking this item, the action of Lock Small Zone will execute during programming.

*1: The FW File for MCU with Security Processor generated by iMO i87-IDE program. (MO-Link)

*2: User Data File for MCU with Security Processor edited by user. (Refer to SQ7515 specifications to develop hardware related settings).

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DUM01- TW003-EN	Name: Secure Writer User Manual	Version
🥹 iMQ Secure Writer		– [
File Read IC Help		
	IC Configuration	
IC Type :	SQ7515 👻	
Load FW	File	
Load Use	r Data	
	ermanent Disable	
	lassword	
Lock (Configuration	
Lock	Key Memory	
Lock S	Small Zone	
<	0 0 0	
iMQ Secure Writer Connected Secure Writer Software Version	on = V 1.00 (20230111). Firmware Version = V 1.00 (20221212) . Hardware	e Version = V 3.1

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3 Writer Option P	age	
elect writer operatio	n settings	
🥺 iMQ Secure Writer		- D >
File Read IC Help		
	Writer Option	
Programming	Mode : OCD (4-Wire)	
Programming	Action : 🗹 Blank Check 🗹 Erase 🗹 Write 🗹 Verify	
Buzzer		
Power on a	delay time(s)	
Set the lim	it of programming number 100,000,000 (1~100,000,000)	
Select cou	Inter : Device Dongle	
<	0 0 0 0	
Programming Model	ode: The option is only available when prog	ramming the MCU. Selec
• Programming Mo	ode: The option is only available when prog gramming (currently only Support OCD-4W	ramming the MCU. Selec /ire).
 Programming Month the mode for pro Programming Acceleration 	ode: The option is only available when prog gramming (currently only Support OCD-4W tion: The option is only available when prog	ramming the MCU. Selec /ire). gramming the MCU.
 Programming Monthle mode for programming Accelerations Programming Accelerations 	ode: The option is only available when prog ogramming (currently only Support OCD-4W :tion: The option is only available when prog will be performed during programming pro	ramming the MCU. Selec /ire). gramming the MCU. cess (the description of
 Programming Months the mode for programming According to the selected actions of actions are described. Buzzer: If checking 	ode: The option is only available when prog gramming (currently only Support OCD-4W tion: The option is only available when prog will be performed during programming pro ibed in the Programming page below).	ramming the MCU. Selec /ire). gramming the MCU. cess (the description of after some actions in
 Programming Months the mode for programming Accord actions with a constraints are describle. Buzzer: If checking Secure Writer. 	ode: The option is only available when prog ogramming (currently only Support OCD-4W tion: The option is only available when prog will be performed during programming pro ibed in the Programming page below). Ing the option, the Buzzer will make a sound	ramming the MCU. Selec /ire). gramming the MCU. cess (the description of after some actions in
 Programming Monthle mode for programming Active Selected actions watching are describle. Buzzer: If checking Secure Writer. Power on delay to the secure to the	ode: The option is only available when prog ogramming (currently only Support OCD-4W tion: The option is only available when prog will be performed during programming pro ibed in the Programming page below). Ing the option, the Buzzer will make a sound ime(s): Set the time in seconds for Secure W	ramming the MCU. Selec /ire). gramming the MCU. cess (the description of after some actions in 'riter to delay programmi
 Programming Methe mode for programming Active Selected actions we actions are described actions. Buzzer: If checking Secure Writer. Power on delay tagent and the range is 	ode: The option is only available when prog ogramming (currently only Support OCD-4W tion: The option is only available when prog will be performed during programming pro ibed in the Programming page below). Ing the option, the Buzzer will make a sound time(s): Set the time in seconds for Secure W 0.01 ~ 10.00 Sec.	ramming the MCU. Selec /ire). gramming the MCU. cess (the description of after some actions in ⁄riter to delay programmi
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6.2.4 Programming Page

Arriving at this page indicates that the IC configuration and Writer settings have completed, and other actions such as download or programming can perform.

🥹 iMQ Secu	re Writer					-		×
File Read	IC Help							
			Prog	ramming				
	IC Type : SQ7653							
	FW File Name : FW_dum	my_0xA55A_48	3K_SQ7653.h16					
	FW File CRC16 : 0xBFCB							
	User Data Name :					Summary		
	User Data CRC16 :							
	OCD Permanent Disable	: False						
	OCD Password : Disable							
	Programming Mode : OC	D (4-Wire)						
	Programming Action : Bi	апк спеск, Ега	se, write, verity					
					 Г			
		N				↓		٨.
			je				(9
Blank Check	Erase	Write	Verify			Download	Prog	ramming
1								

- Summary: The area display summary of the current IC programming configuration and Writer settings.
- Download: The button is to transfer the IC configurations and Writer settings to the Secure Writer machine.
- **Programming:** This button is to execute the programming actions. It will execute the programming steps according to the options "Erase", "Blank Check", "Write" and "Verify" checked on the Writer Option page. To execute this action, you need to execute Download before.
- Action: (These buttons can only use in MCU operation. The action will be executed separately, and Download must be done before performing these actions)

- Blank Check: Check MCU Flash are blank (all are 0xFF) or not.

- Erase: Erase data stored in MCU Flash

- Write: This is to write the current IC configuration into the MCU (this action will fail when the Flash is not blank, we recommended to use "Blank Check" to check or "Erase" to clear the space)

- Verify: This is to verify whether the content of the IC is consistent with the data of the Secure Writer machine after writing to IC.

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No. : TDUM01- TW003-EN	Name: Sec	ure Writer User I	Version: V1.3	
6.3 File Menu				
	🥪 i	MQ Secure \	Writer	
	File	Read IC	Help	
		New	Ctrl+N	
	B	Save File	Ctrl+S	
	6	Load File	Ctrl+L	
	F	Exit	Alt+F4	

- **New:** Create a new IC configuration, and jump to IC Configuration page, the function is the same as the New IC Configuration described in 6.2.1
- Save File: Use encryption to save current IC configurations and programming settings. If you have followed the steps 6.2.2~6.2.4, you can only use this function on the Programming page. Click and jump to the Save File Options screen for more detailed information:
 - \triangleright Save Content:
 - \checkmark Save All: All data will save.
 - Save Configuration: Save configuration setting. (without FW data and User Data File)
 - Permission:
 - \checkmark Read/Write: Files saved with this permission can edit after user loads.
 - \checkmark Read only: Files saved with this permission cannot be edited after the user loads.
 - Save Mode: \triangleright
 - Normal mode: Use only basic encryption protection when saving files. \checkmark
 - Protect mode: When saving a file, it will authenticate the Key with the Device or Dongle, and require the user to enter a set of Pin Code for encryption protection.
 - Key Source: (This option will only be available when Protect mode is selected)
 - Device: Select Device as the source of the authentication key, and then when the user loads the file, he must first connect to the same Device.

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DUM01-TW0	03-EN	Name: Secure Wri	iter User Man	ual		Versi	on : `	V1
	🥶 iMQ	Secure Writer				-	- 0	
	File R	ead IC Help						
	🗅 Ne	ew Ctrl+N	F	rogramming				
	🖺 Sa	ve File Ctrl+S						
	🗁 Lo	ad File Ctrl+L	P_TestData_A.jsfw					
	🕒 Exi	it Alt+F4 0x6CB9						
		Lock Configuration : Unlock						
		Lock Key Memory : Unlock						
		Lock Small Zone : Unlock						
	Blank C	Check Erase W	rite Verify			Download	Prog	gran
	iMQ Secur Secure Wr Load File S	re Writer Connected. riter Software Version = V 1.00 (2023 Success (C:\iMQ\SecureWriter_v1.00	0111), Firmware Versic 0\ToWriteFile\SQ7101_	n = V 1.00 (20221212) , Hardwar AP_TestData_A.jsfw)	re Version = V 3	3.1		
✓	IMQ Secur Secure Wr Load File S Secure Writer	re Writer Connected. riter Software Version = V 1.00 (2023 Success (C:\iMQ\SecureWriter_v1.00	0 0111), Firmware Versic \ToWriteFile\SQ7101_	n = V 1.00 (20221212) , Hardwai AP_TestData_A.jsfw)	re Version = V S	3.1	×	
✓ iMQ File R	IMQ Secur Secure Wr Load File S Secure Writer ead IC Hel	re Writer Connected. riter Software Version = V 1.00 (2023 Success (C:\iMQ\SecureWriter_v1.00	0 0111), Firmware Versio D\ToWriteFile\SQ7101_ Save File Options	n = V 1.00 (20221212) , Hardwai AP_TestData_A.jsfw)	re Version = V 3	3.1	×	
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✓ File R	IMQ Secur Secure Wr Load File S Secure Writer ead IC Hel	re Writer Connected. riter Software Version = V 1.00 (2023 Success (C:\iMQ\SecureWriter_v1.00 , p p Save Content : Permissions :	Oli 11), Firmware Versio Oli ToWriteFile\SQ7101_ Save File Options Save File Options Save All Read/Write	n = V 1.00 (20221212) , Hardwar AP_TestData_A.jsfw) O Save Configuration Read only	re Version = V 3	3.1	×	
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✓ File R	iMQ Secur Secure Wr Load File S	re Writer Connected. riter Software Version = V 1.00 (2023) Success (C:\iMQ\SecureWriter_v1.00	0 0111), Firmware Versio D\ToWriteFile\SQ7101_ Save File Options Save All Read/Write Normal	 N = V 1.00 (20221212) , Hardward AP_TestData_A.jsfw) Save Configuration Read only Protect 	re Version = V 3	3.1	×	

Load File: Read IC configuration and burn configuration files. The function is the same as the Load Configuration displayed when opening the software. After reading the file, it will have different behaviors according to the settings of the file that have been saved before. Please refer to the following instructions:

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🕺 Load File					Х
←	嘰 > 本機磁碟 (C:) > iMQ > SecureWriter_v1	.00 > ToWriteFile	ٽ ~	/	
組合管理 ▼ 新増資料列	ξ.				?
 ▲機 3D 初件 ◆ 下載 ① 文件 ◆ 音樂 ● 眞面 ● 圖片 圖 影片 2 二 本機磁碟 (C:) 二 本機磁碟 (D:) 型 twfs01 (\impad01 〕 網路 	名編 SQ7101_WriterSetting_001.swcf SQ7101_WriterSetting_002.swcf	惨 改日期 2023/2/8 下午 06:41 2023/2/8 下午 06:42	臻型 大/ SWCF 檔案 SWCF 檔案	ј\\ 1 КВ 1 КВ	
檔案名	:稱(N): SQ7101_WriterSetting_002.swcf			Default Files (*.swcf;)関畝(O)取消	~

Select configuration file with the attached file name .swcf

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. : TDUM	01- TW003-EN	Name: Secu	re Writer User Manual		Ve	rsion: V1.
						_
	🚳 iMQ Secure Writer			-		
	File Read IC Help					
			Programming			
	IC Type : S	SQ7101				
	User Data	Name : SQ7101_AP_Test	Data_A.jsfw			
	User Data	CRC16 : 0x6CB9				
	Lock Con	figuration : Lock				
	Lock Sma	all Zone : Unlock				
	Buzzer : E	nable				
				J.		
				r.	(L)	
	Blank Check Er	ase Write	Verify	Download	Programming	
	<		0000			
	iMQ Secure Writer Connecte Secure Writer Software Vers	ed. sion = V 1.00 (20230111),	Firmware Version = V 1.00 (20221212) , Hard	ware Version = V 3.1		
	Load File Success					

That is, you can load the programming files and options that have been set and saved before

Exit: close the program.

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6.4 Read IC Menu

This function is to read the data in the MCU and display in the table for users to view. The related options are as follows:

🥹 iMQ Secure Writer															_	-		×
File Read IC Help																		
					F	W Dat	ta	((3) I	Read	IC	結	果					
	Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
0.1	0000	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	\sim
Select IC :	0010	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
SQ7615 1	0020	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
Programming Mode :	0030	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
OCD (4-Wire)	0040	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
000 (+-wire)	0050	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
Password	0060	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
Power on delay time	0070	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
(1) Deed IC 設定	0080	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
(I) Reau IC age	0090	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	00A0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	00B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	0000	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	00D0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	00E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
	OOFO	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
Bead EW/	0100	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
Read PW	0110	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
(2) Read IC 執行	0120	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
(2) 10000 10 7715	0130	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	\sim
	00016-0-1001																	_
	CRC16: UXACUA																	
														Sav	e		Clo	se
Read Success (4609.5265 r	ns)											((4) 1	諸存	[∉] Re	ad I	C 結	淉

(1) Read IC Setting:

- Select IC: Select the IC to be read
- Program Mode: Select the communication mode for reading (currently only Support OCD-4Wire)
- Password: Enter the password to read the IC, the password must be hexadecimal and the length is 32 characters
- Power on delay time(s): Set the time for Secure Writer to automatically delay reading, and the setting range is 0.01 ~ 10.00 Sec

(2) Read IC execution:

- Read FW: Start to execute the action of Read FW
- Read User Data: Start to execute the action of Read User Data (SQ7617/SQ7653 only have EEPROM)

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(3) Read IC result:

The result of Read IC is displayed on the table, and the CRC16 value of the result will be

calculated in the lower left corner for user confirmation

(4) Store the Read IC result:

Save the result and related information of Read IC as a file. The default file name is "IC name_CRC16 value.txt" (this function will be displayed only after Read IC is successful). The content and format of the saved file are as following:

SQ7615_0xAC0A.txt - 記事本		– 🗆 X
檔案(F) 編輯(E) 格式(O) 檢視(V) 說明		
[Information] IC Type = SQ7615 Program Mode = OCD (4-Wire) Password = Disable Read Data = FWData CRC16 = OxACOA		~
[Data] Address 0x00 0x01 0x02 0x03 0x04 0x05 0x06	0x07 0x08 0x09 0x0A 0x0B 0x0C 0>	OD 0x0E 0x0F
0x0000 FF FF FF FF FF FF FF FF FF 0x0010 FF FF FF FF FF FF FF FF 0x0020 FF FF FF FF FF FF FF FF 0x0030 FF FF FF FF FF FF FF FF 0x0040 FF FF FF FF FF FF FF FF 0x0050 FF FF FF FF FF FF FF FF 0x0060 FF FF FF FF FF FF FF FF 0x0060 FF FF FF FF FF FF FF FF 0x0080 FF FF FF FF FF FF FF FF FF 0x0080 FF FF FF FF FF FF FF FF FF	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	第1列,第1行 100% Unix (LF)	UTF-8

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6.5 Help Menu



6.5.1 Secure Writer Firmware Upgrade

Click Help / Secure Writer Firmware Upgrade to update the firmware of the Secure Writer machine. For details, please refer to <u>5.2 Software Update (Secure Writer Firmware Upgrade)</u>.

6.5.2 About

Display the current software version, firmware version, hardware version and other related information.



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Change History

Version	Approved Date	Description					
V1.3		Add SQ7133/SQ7135 programming					
V1.2	2024/01/03	Add SQ7131 programming					
V1.0	2023/05/10	First released					

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