

S550-SFWv3

Operation Manual



G Sunny Giken Inc.

Serial Flash Programmer S550-SFWv3

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1. Outline

1.1. Precautions

Thank you for purchasing our product.

Please read this operation manual carefully to understand the functions of this product for effective and stable operations. Please beware that Sunny Giken Inc. shall have no liability for any damages and/or troubles caused by misuse or careless handling of this product.

i) General Cautions

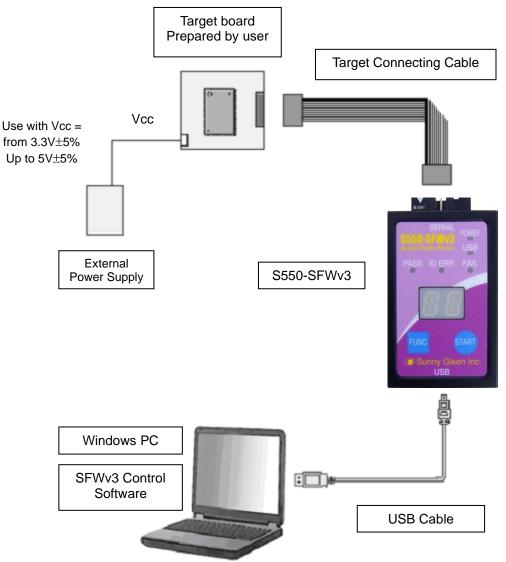
- Please observe the following points to avoid hazards such as fire, burns, electric shock, and/or injures:
- Use this product under proper environment.
- Never use this product placed up side down or vertically.
- Handle this product with care to avoid high impact caused by fall and/or physical shock.
- Never disassemble and/or modify this product by yourself.
- ii) Operating Environment
 - Do not use this product in environments described below:
 - Dusty places
 - Places where there is the presence of corrosive gases
 - Places exposed to direct sunlight
 - Places surrounded by equipments that could become sources of noises
 - Places with severe mechanical shock and/or constant mechanical vibration
 - Operational ambient temperature 0°C to 40°C Humidity below 80% (non condensing)
 - Preventing electrostatic buildup for handling this product and devices is highly recommended.
- iii) Storage
 - If you do not plan to use this product for a long time, put this product in the packing box in which the product had been delivered, and store it in the shade with the ambient temperature of -10°C to +40°C and below 80% of humidity (non-condensing).
- iv) Transportation
 - When transporting this product, be sure to use the packing box in which the product had been delivered.
- v) Cleaning

Wipe this product with soft and clean fabric when it needs cleaning. Never use any sort of organic solvent such as benzene that may cause this product to deteriorate.

The version of Windows is not unified in regard to the figures in this operation manual.

1.2. System Configuration

The entire system configuration of the Serial Flash Programmer S550-SFWv3 is illustrated below.



* For details on connection according to functions, see "4. Connections".

2. Specifications

2.1. Specifications

Operating Environment	Ambient temperature : 0°C to 40°C Humidity: below 80% (non-condensing)
Storage Environment	Ambient temperature: -10°C to +40°C Humidity: below 80% (non-condensing)
Operating voltage	3.3V plus/minus 5% or 5V plus/minus 5%
Electricity consumption	Power saving mode Max. 40mA (Stand-alone, operating voltage at 3.3V)Max. 50mA (Stand-alone, operating voltage at 5.0V)Normal modeMax. 90mA, Average 70mA (Stand-alone, operating voltage at 3.3V)Max. 120mA, Average 90mA (Stand-alone, operating voltage at 5.0V)
Dimensions	Approx. 48(W) x 74(H) x 14(D)mm (Excluding connector projection part)
Weight	Approx. 50g
International standards	CE Mark Obtained (EMI:EN55011 Group1 ClassA, EMS:EN61000-6-2) FCC Compliance This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.2. Function Specifications

Programmable MCU	Built-in Flash Memory Microcomputer * For details, see the [S550-SFWv3 Device List].
Operation Mode	Clock-synchronous serial I/O Clock-synchronous serial I/O[No handshake] Single wire Clock-asynchronous serial I/O Clock-asynchronous serial I/O
Programming mode	Serial Programming
Data Mode	Following data mode can be selected: -Single Data Mode: One program data can be set. -Multi Data Mode: One to four program data can be set.
Channel Mode	Following channel mode can be selected: -Single CH Mode: Only one S550-SFWv3 can be used for programming. -Multi CH Mode: Maximum of ten S550-SFWv3 can be used for programming. * One channel means one S550-SFWv3. * "Multi Data Mode" and "Multi CH Mode" cannot be set at the same time.
FA Mode	The FA equipment can control remotely by controlling I/O of the S550-SFWv3. * For details, see the [S550-SFWv3 FA Mode Operation Manual].

2.3. System Requirements

Host Machine IBM PC/AT Compatible machine		
CPU Pentium200MHz or higher		
Memory	64Mbyte or higher	
HDD	Minimum of 10Mbyte available disk space	
CRT 800 x 600 dots or better, minimum of 16 bits (24 bits or more recommended)		
Others	USB 2.0 compliant USB port x 1 to 10 (It is possible to substitute with self-powered USB hub.)	
OS Microsoft Windows 10, 8.1, 7, Vista, XP, 2000		

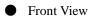
2.4. Programmable Device

Refer to the file "S550-SFWv3 Device List" about the programmable devices. Some devices are under evaluation or not programmable.

Please contact us for the latest information.

2.5. S550-SFWv3 External Appearance

The external appearance of S550-SFWv3 is shown below with descriptions of switches, LEDs, connectors and accessories.





LED / Switch		Functions
POWER	POWER	Lights up when power is supplied to S550-SFWv3.
USB	USB	Lights up when PC and S550-SFWv3 are connected through USB, and blinks while accessing. *Stay lighted while updating.
PASS	PASS	Lights up when programming to the target finished successfully.
	ID ERR	Lights up when "ID Error" occurs while programming to the target.
FAIL	FAIL	Lights up when an error other than "ID Error" occurs while programming to the target.
88	Center Display	14SEG LED. Displays user program checksum, device information, and error information.
START	START Switch	Switches displays on the center display, and start initializing and programming to the target.
FUNC	FUNC Switch	Use this switch to switch display on the center display.

• Top Side View



Connector	Function
SERIAL	Cable connector for connecting the target.

• Bottom Side View



Connector	Function
USB	USB (mini B) communication connector (for connecting with PC)

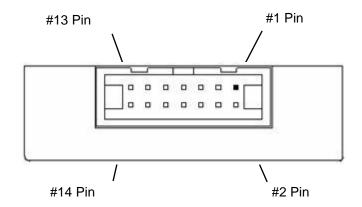
Accessory	Function
Ring for a carry-along strap	Put on a strap for carry-along. *No strap is included in the product package.

2.6. Connector Pins Specifications

- Connector Pins (S550-SFWv3 Main unit)
- Model: XG4C-1434 OMRON Corporation
- Pin Assignment (S550-SFWv3 Main unit)

*Note that signal names and directions are the ones seen from the programmer side. Especially the signals for 5:RXD and 11:TXD would be other way around when seen from the target side.

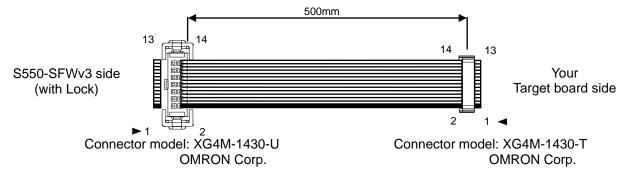
Pin Number#	Signal	Contents	Direction
1	CLK	Clock signal output for serial programming	Output
2	GND	Signal ground	-
3	CNVss	CNVss (Vpp) signal output for serial programming	Output
4	EPM	EPM output for serial programming	Output
5	RXD	Received data for serial programming	Input
6	GND	Signal ground	-
7	CE	CE output for serial programming	Output
8	Vcc	Power supply for serial programming	-
9	BUSY	BUSY input for serial programming	Input
10	GND	Signal ground	-
11	TXD	Transmission data for serial programming	Output
12	GND	Signal ground	-
13	RESET	RESET output for serial programming	Output
14	GND	Signal ground	-



2.7. Target Connecting Cable

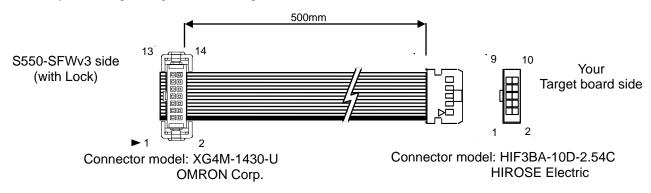
$2.7.1. \quad 14-14 \ Standard \ Cable$

The attached connecting cable is a straight cable. In case the connector specifications of the board you use are different, or you wish to adjust the cable length, prepare a cable that matches the above pin assignment. The length of the cable shall be 500mm or shorter.



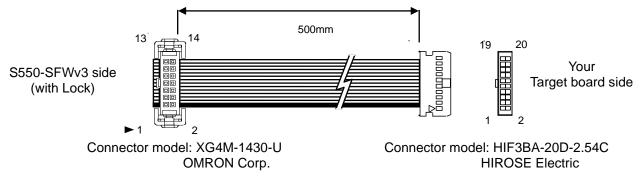
2.7.2. 14 – 10 Standard Cable

The attached connecting cable converts 14pin connector to 10pin(Applicable for M16C Family/ Standard serial I/O mode 1). You can use this cable to connect S550-SFWv3 and the target board that has 10pin connector. When using this product, refer to the file "S550-SFWv3 Examples of circuit for serial programming". This cable can be used only when the pin assignment of the 10pin connector side is the same.



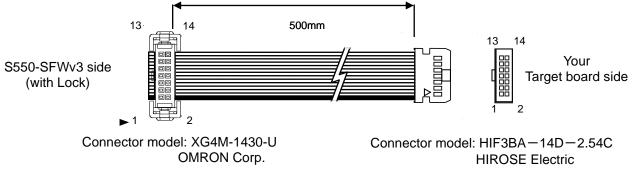
2.7.3. 14 – 20 Custom1 Cable(model: S550-SFW-CB1)

The optional connecting cable converts 14pin connector to 20pin(Applicable for RX,H8SX,H8S,SuperH Family / Generic BOOT).You can use this cable to connect S550-SFWv3 and the target board that has 20pin connector. When using this product, refer to the file "S550-SFWv3 Examples of circuit for serial programming". This cable can be used only when the pin assignment of the 20pin connector side is the same.



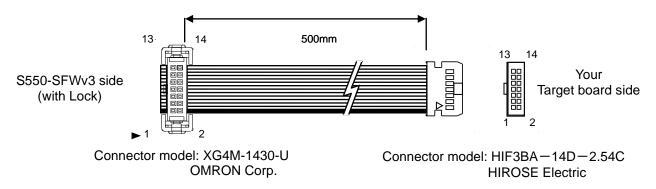
2.7.4. 14 – 14 Custom2 Cable(model: S550-SFW-CB2)

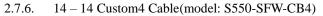
The optional connecting cable converts 14pin connector to 14pin(Applicable for RX Family(except RX610 group) / Generic BOOT).You can use this cable to connect S550-SFWv3 and the target board that has E1 compatible connector. When using this product, refer to the file "S550-SFWv3 Examples of circuit for serial programming". This cable can be used only when the pin assignment of the 14pin connector side is the same.



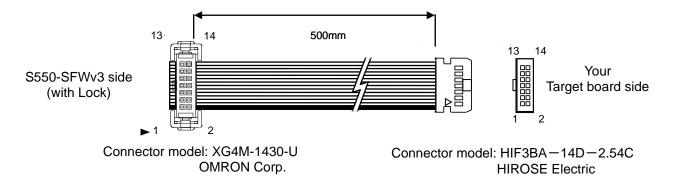
2.7.5. 14 – 14 Custom3 Cable(model: S550-SFW-CB3)

The optional connecting cable converts 14pin connector to 14pin(Applicable for M16C Family/ Standard serial I/O mode 3). You can use this cable to connect S550-SFWv3 and the target board that has E8a compatible connector. When using this product, refer to the file "S550-SFWv3 Examples of circuit for serial programming". This cable can be used only when the pin assignment of the 14pin connector side is the same.





The optional connecting cable converts 14pin connector to 14pin(Applicable for RL78 Family/ Single wire Clock-asynchronous serial I/O).You can use this cable to connect S550-SFWv3 and the target board that has E1 compatible connector. When using this product, refer to the file "S550-SFWv3 Examples of circuit for serial programming". This cable can be used only when the pin assignment of the 14pin connector side is the same.



3. Circuitry Examples

Refer to the file "S550-SFWv3 Examples of circuit for serial programming".

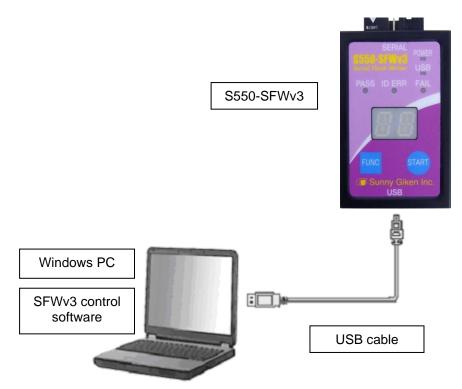
4. Connections

S550-SFWv3 has following types of connections:

- Connection for downloading / uploading / initializing This is a connection for downloading program data to S550-SFWv3, uploading data from S550-SFWv3, or initializing S550-SFWv3, using the control software.
- 2) Connection for stand-alone programming / stand-alone initializing This is a connection for programming the target board from S550-SFWv3.
- Connection for remote programming This is a connection for programming the target board from the control software through S550-SFWv3.

4.1. Connection for Downloading / Uploading / Initializing

The connection when you download data to S550-SFWv3 from the PC, upload data from S550-SFWv3, or initialize S550-SFWv3 using the control software is illustrated below.

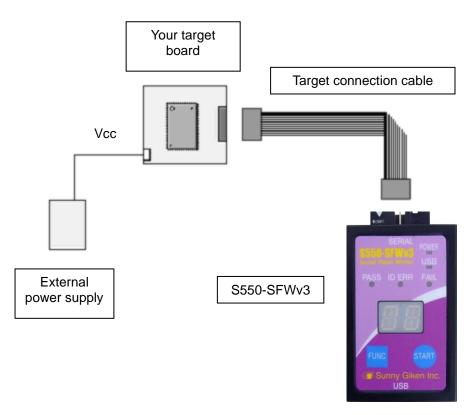


* Turning ON/OFF the power of S550-SFWv3 is done by plugging/unplugging the USB cable.

* Do not unplug the USB cable during the communication with the control software.

4.2. Connection for Stand-alone Programming / Stand-alone Initializing

The connection when you program from the lone S550-SFWv3 to the target (stand-alone programming) or initialize S550-SFWv3 (stand-alone initializing) is illustrated below.



* Turning ON/OFF the power of S550-SFWv3 is done by turning ON/OFF the power supply for the board.

* For the voltage(VCC) supplied to S550-SFWv3 from the external power supply, the range shall be 3.3V plus/minus 5% up to 5V plus/minus 5%, and the power supply capacity shall be the total capacity of the target board and S550-SFWv3 (see "2.1 Specifications").

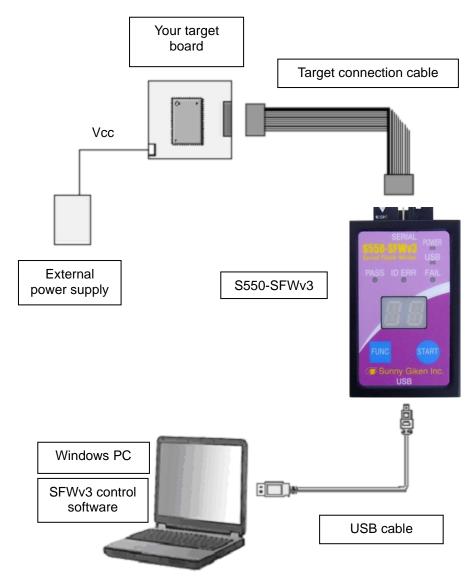
4.3. Connection for Remote Programming

The connection when you program remotely to the target from the PC using the control software though S550-SFWv3 is illustrated below.

The power may be supplied externally or by S550-SFWv3. For power supply method, see "6.2.1 Device Setting Screen".

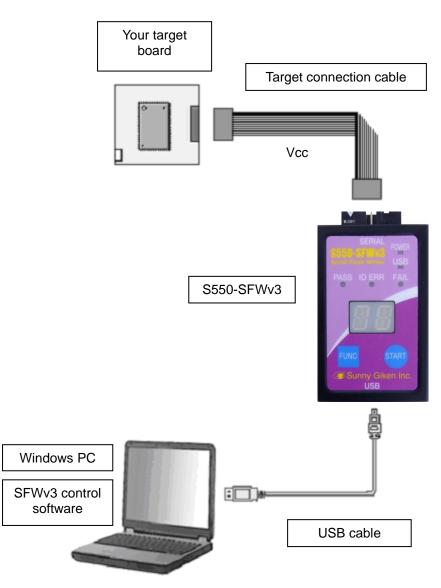
* When the consumption current of the target board exceeds 200mA, supply from an external power supply.

■ (When supplying voltage to the target board using an external power supply – Single CH Mode)



- * Turning ON/OFF the power of S550-SFWv3 is done by plugging/unplugging the USB cable.
- * Turn on the external power supply after connecting the USB cable.
- * Do not unplug the USB cable during the communication with the control software.

■ (When supplying voltage to the target board from S550-SFWv3 – Single CH Mode)



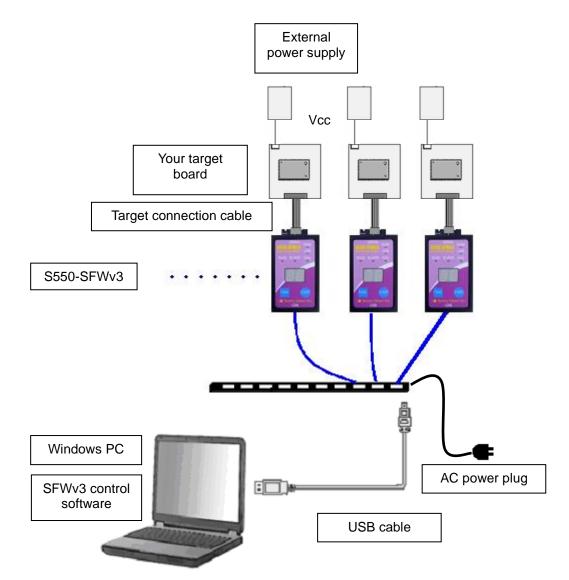
* Turning ON/OFF the power of S550-SFWv3 is done by plugging/unplugging the USB cable.

* Do not unplug the USB cable during the communication with the control software.

* The voltage supplied to the target can be selected from 5V plus/minus 5% or 3.3V plus/minus 5%.

* The voltage is supplied to the target board while programming only.

• (When supplying voltage to the target board using an external power supply - Multi CH Mode)



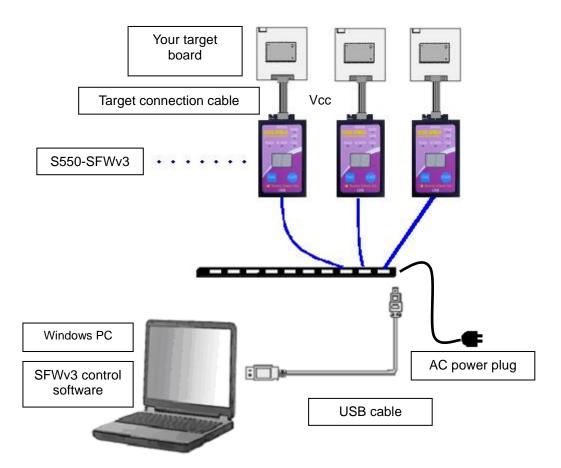
* Turning ON/OFF the power of S550-SFWv3 is done by plugging/unplugging the USB cable.

* Turn on the external power supply after connecting the USB cable.

* Do not unplug the USB cable during the communication with the control software.

* Please use self-power when using USB hub.

■ (When supplying voltage to the target board from S550-SFWv3 - Multi CH Mode)



- * Turning ON/OFF the power of S550-SFWv3 is done by plugging/unplugging the USB cable.
- * Do not unplug the USB cable during the communication with the control software.
- * The voltage supplied to the target can be selected from 5V plus/minus 5% or 3.3V plus/minus 5%.
- * The voltage is supplied to the target board while programming only.
- * Please use self-power when using USB hub.
- * Action might become unstable as that the power supply falls down. In that case, please supply voltage to the target board by using an external power supply.

5. Setting Up

S550-SFWv3 requires installing Control Software and USB Driver on Windows PC.

5.1. Installing

The procedure described in this manual is for Windows 10, 8.1 or 7. Please refer "Supplemental Manual for Setting Up" for Windows Vista, XP or 2000.

If the USB Driver of old version (Ver.3.2.0.0 or older) is installed, please uninstall USB Driver in advance. If the following dialog is displayed, please uninstall Control Software of old version in advance.



Please refer "Supplemental Manual for Setting Up" for uninstalling USB Driver of old version or Control Software of old version.

Please install Control Software and USB Driver by the user with administrative privileges.

Please execute "SFWv3Setup.exe" in root folder. After this, the following dialog is displayed.

🛻 5550-SFWv3 Installer Ver. 1.0.0.0	
S550-SFWv3 Ver.	5.00
Read Me	Ma ma
User's Manual	Server Page
Quick Install	PASS ID ERR FAIL
Custom Install	
GUI Application	🔤 🚳
S550-SFWv3 USB Driver	USB
Welcome to S550-SFWv3 Installer.	
Sunny Giken Inc.	
Sunny Giken Inc. Website	Exit

The functions of buttons are following.

Buttons	Descriptions
Read Me	Open Readme file.
User's Manual	Open Operation Manual (this manual). The software for PDF files is required. (ex. Adobe Reader)
Quick Install	Install Control Software and USB Driver automatically. Please refer "5.1.1.Quick Install".
GUI Application	Install Control Software only. Please refer "5.1.2.Custom Install (Control Software)".
S550-SFWv3 USB Driver	Install USB Driver only. Please refer "5.1.3.Custom Install (USB Driver)".
Sunny Giken Inc. Website	Open the website of our company. (Top Page) It is same applies to click the logo of our company.
Exit	Terminate the Installer.

There are two procedures for installing ("Quick Install" or "Custom Install"). Each features are following.

Items	Quick Install	Custom Install		
Outline	Install Control Software and USB	Install Control Software or USB		
Outilile	Driver automatically.	Driver individually.		
Target user of	You may not select it.	You may select "Just me" or		
Start Menu	(Only "Just me")	"Everyone".		
	Click "Quick Install" button to	1) Click "GUI Application" button to		
Procedures	install Control Software and USB	install Control Software. (*1)		
Procedures	driver.	2) Click "S550-SFWv3 USB Driver"		
		button to install USB Driver. (*1)		
	You want to install Control	You want to upgrade Control		
Dumosa	Software and USB Driver	Software or USB Driver.		
Purpose	first-time.	You want to register the Start Menu		
		of Control Software for everyone.		

(*1) Please do them as you think proper depending on the status of install.

5.1.1. Quick Install

In the case of "Quick Install", Control Software and USB Driver are installed automatically. Install user of Control Software is "Just me".

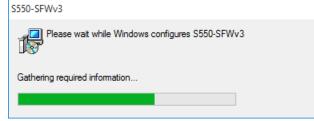
i) Installer dialog will be displayed. Click "Quick Install" button.



ii) Control Software will be installed automatically. Wait a moment. Windows Installer



iii) The following dialog will be displayed. Wait a moment.

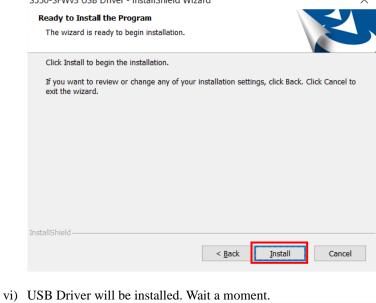


iv)	The following dialog will be displayed. Click "Next" button.
	S550-SFWv3 USB Driver - InstallShield Wizard

 \times

٤	Welcome to the InstallShield Wizard for S550-SFWv3 USB Driver
	The InstallShield Wizard will install S550-SFWv3 USB Driver on your computer. To continue, click Next.
	< Back Next > Cancel

v) The following dialog will be displayed. Click "Install" button. S550-SFWv3 USB Driver - InstallShield Wizard X



S550-SFWv3 USB Driver - InstallShield Wizard	×
Setup Status	
The InstallShield Wizard is installing S550-SFWv3 USB Driver	
InstallShield	Cancel
InstallShield	Cancel

vii) The following dialog will be displayed. Click "Yes, I want to restart my computer now." radio button and click "Finish" button to reboot the PC.

In the case of Windows 7, radio buttons will not be displayed because you will not require to reboot the PC. S550-SFWv3 USB Driver - InstallShield Wizard

ح	InstallShield Wizard Complete				
	The InstallShield Wizard has successfully installed S550-SFWv3 USB Driver. Before you can use the program, you must restart your computer.				
	• Yes, I want to restart my computer now.				
	○ No, I will restart my computer later.				
	< <u>B</u> ack Finish Cancel				

In the case of Windows 10 or 8.1, the PC will not be rebooted after clicking "Finish" button if you click "No, I will restart my computer later." radio button.

But, the reboot is required to complete installing USB Driver. Reboot the PC before connecting [S550-SFWv3] to the PC certainly.

viii)Please check the Start Menu of Windows that "Programs" - "S550-SFWv3" - "S550-SFWv3 Ver.X.XX" is registered.

("Ver.X.XX" means the Product Version displayed Installer dialog.)

If Control Software or USB Driver are installed, they will be clobbered.

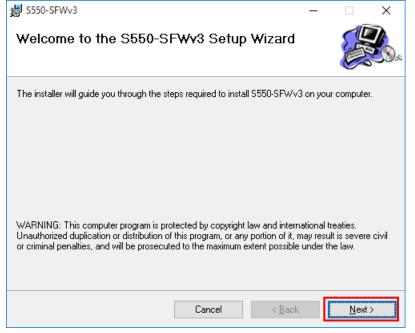
5.1.2. Custom Install (Control Software)

In the case of installing Control Software by "Custom Install", you may select install directory and install user.

i) Installer dialog will be displayed. Click "GUI Application" button.



ii) The following dialog will be displayed. Click "Next" button.



iii) The following dialog will be displayed. Click "Next" button after selecting folder and install user.

岁 S550-SFWv3	-		×
Select Installation Folder			
The installer will install S550-SFWv3 to the following folder.			
To install in this folder, click "Next". To install to a different folder, enter it be	low or	click "Brow	se".
C:\Program Files (x86)\S550-SFWv3\		Browse	
		<u>D</u> isk Cost	
Install S550-SFWv3 for yourself, or for anyone who uses this computer:			
<u>○ E</u> veryone			
. ● Just <u>m</u> e			
Cancel < <u>B</u> ack		<u>N</u> ext	>

If you select "Everyone", Start menu is registered for all users. If you select "Just me", Start menu is registered for the user installed Control Software.

iv) The following dialog will be displayed. Click "Next" button.

∦ S550-SFWv3			_		×
Confirm Installation					
The installer is ready to install S550-SFw	√v3 on your compute	г.			
Click "Next" to start the installation.					
	Cancel	< <u>B</u> ack		<u>N</u> ext >	, I

v) Control software will be installed automatically. Wait a moment.

₿ \$550-\$FWv3		X
Installing S550-SFWv3		
S550-SFWv3 is being installed.		
Please wait		
Cancel	< <u>B</u> ack	<u>N</u> ext >

Installation Complete			
S550-SFWv3 has been successfully inst	alled.		
Click "Close" to exit.			
	Cancel	< <u>B</u> ack	<u>C</u> lose

vii) Please check the Start Menu of Windows that "Programs" - "S550-SFWv3" - "S550-SFWv3 Ver.X.XX" is registered.

("Ver.X.XX" means the Product Version displayed Installer dialog.)

If Control Software is installed, the following dialog will be displayed on procedure ii).

岁 S550-SFWv3		-	
Welcome to the S550-SI	FWv3 Setup Wiza	rd	
Select whether you want to repair or remo	ive S550-SFWv3.		
● <u>R</u> epair S550-SFWv3 ○ Re <u>m</u> ove S550-SFWv3			
	Cancel	<u>a</u> ck	Einish

If you click "Repair S550-SFWv3" radio button and click "Finish" button, Control Software will be clobbered. In this case, the following dialog will be displayed. Click "Close" button.

₿ \$550-\$FWv3		_		×
Installation Complete				
S550-SFWv3 has been successfully inst-	alled.			
Click "Close" to exit.				
	Cancel	< <u>B</u> ack	<u>C</u> lose	

If you click "delete" radio button and click "Finish" button, Control Software will be uninstalled. In this case, the following dialog will be displayed. Click "Close" button._____

闄 S550-SFWv3		_		×
Installation Complete				1
S550-SFWv3 has been successfully rem	oved.			
Click "Close" to exit.				
	Cancel	< <u>B</u> ack	<u>C</u> lose	

If you change install user, please uninstall Control Software in advance. After this, please install Control Software once again.

5.1.3. Custom Install (USB Driver)

In the case of installing USB Driver by "Custom Install", click "USB Driver" button on Installer dialog.



The procedure after this is same as "Quick Install." Please refer from procedures iii) to procedure vii) in "5.1.1.Quick Install".

5.2. Uninstalling

- 5.2.1. Uninstalling Control Software
 - i) Select following depending on Windows version.

Windows Version	Selecting
Windows 10	"Apps & features" in "Apps" (or "System") from "Settings"
Windows 8	"Uninstall" in "Programs" from "Control Panel"
Windows 7 or Vista	"Uninstall a program" in "Programs" from "Control Panel"
Windows XP	"Add or Remove Programs" from "Control Panel"
Windows 2000	"Add/Remove Programs" from "Control Panel"

ii) The list of installed application will be displayed. Select "S550-SFWv3" and click "Uninstall" button.

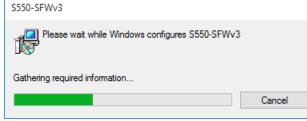
← Settings				
🐯 SYSTEM			Find a setting	Q
Display	24	People Microsoft Corporation	11.01	
Notifications & actions		Phone Companion	45013	
Apps & features	0-4	Microsoft Corporation	5/8/30/6	
Multitasking	-	Platos Microaft Carposition	125 MB 5/16/2018	
Tablet mode	17	S550-SFWv3 SunnyGiken	8.44 MB 9/19/2016	
Battery saver			Uninstall	
Power & sleep		5558-974V3-USB Deiner	insubble	
Storage		Samp Glan Inc.	5/%/2018	
Offline maps	9	Sports Microsoft Corporation	64.0 KB 5/16/2018	
Default apps	۲	Symantic: Endpoint Particity Symantic: Corporation	0% 1.86 08 (2/W/3/16	
About	۰	Weather Microsoft Corporation	75048 5/6/208	

iii) The following dialog will be displayed. Click "Uninstall" button.

This app and its related info will be uninstalled.



iv) Control Software will be uninstalled. Wait a moment.



v) Check that "S550-SFWv3" was not displayed in the list of installed application.

5.2.2. Uninstalling USB Driver

The procedure described in this manual is for Windows 10, 8.1 or 7. Please refer "Supplemental Manual for Setting Up" for Windows Vista, XP or 2000.

i) Select following depending on Windows version.

Windows Version	Selecting
Windows 10	"Apps & features" in "Apps" (or "System") from "Settings"
Windows 8	"Uninstall" in "Programs" from "Control Panel"
Windows 7	"Uninstall a program" in "Programs" from "Control Panel"

ii) The list of installed application will be displayed. Select "S550-SFWv3 USB Driver" and click "Uninstall" button.

← Settings		-
SYSTEM		Find a setting
splay	Microsoft Corporation	6/23/2016
otifications & actions	Reader Microsoft Corporation	32.8 49 6/33/2016
ops & features	Reading List app Microsoft Corporation	60.8 KD 6/23/2086
ultitasking	Realtok Card Reader Realtok Semiconductor Cora	12.5 MR 18/15.0214
ablet mode	Realitatic High Definition Audio Driver	36.5 M0
attery saver	Realtyle Somiconductur Corp.	3,67)/2016
rower & sleep	Consellable	Unavoilable 3/10/2015
orage	S550-SFWv3 USB Driver Sunny Giken Inc.	Unavailable 8/1/2016
Offline maps	Sunty Gkennic.	0/1/2010
efault apps	Modify	Uninstall
bout	Scan Microsoft Corporation	32.8 48 3/10/2016
	Toports Microsoft Corporation	72.8 KB 8/5.2046
	Store Microsoft Corporation	108 K3 5/15/2016
	In Sway Microsoft Corporation	264 40 1)21/2046
	a service of the serv	

iii) The following dialog will be displayed. Click "Uninstall" button.

This app and its related info will be uninstalled.



iv)	The following dialog will be displayed. Wait a moment.
	S550-SFWv3 USB Driver - InstallShield Wizard $\hfill - \hfill \times$
	Preparing Setup Please wait while the InstallShield Wizard prepares the setup.
	Please wait while the Installishield wizard prepares the setup.
	S550-SFWv3 USB Driver Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
	InstallShield Cancel

v) The following dialog will be displayed. Click "Yes" button.

Question		
?	Do you want to uninstall S550-SFWv3 USB Driver?	
	<u>Y</u> es <u>N</u> o	

vi) USB Driver will be uninstalled. Wait a moment. S550-SFWv3 USB Driver - InstallShield Wizard

S550-SFWv3 USB Driver - InstallShield Wizard	×
Setup Status	
The InstallShield Wizard is removing S550-SFWv3 USB Driver	
Uninstalling Device Driver	
InstallShield	
	Cancel
	00.7001

vii) The following dialog will be displayed. Click "Yes, I want to restart my computer now." radio button and click "Finish" button to reboot the PC.

In the case of Windows 7, radio buttons will not be displayed because you will not require to reboot the PC. S550-SFWv3 USB Driver - InstallShield Wizard

2	InstallShield Wizard Complete InstallShield Wizard has finished uninstalling S550-SFWv3 USB Driver. To complete the uninstallation, you must restart your computer.
	Yes, I want to restart my computer now. No, I will restart my computer later.
	< Back Finish Cancel

In the case of Windows 10 or 8.1, the PC will not be rebooted after clicking "Finish" button if you click "No, I will restart my computer later." radio button.

But, the reboot is required to complete uninstalling USB Driver. Reboot the PC certainly.

6. Control Software

6.1. Main Screen

6.1.1. Main Screen

(Single Data Mode, or Single CH Mode)

	default.prj - S	550-SFWv3 Ver.4.00	
₽r	oject <u>H</u> elp		
	Information —		1
	Maker:	Renesas	
	MCU :	M16C/60	
	Type :	M30626FHPFP/GP	
	ROM Size :	384Kbyte+4Kbyte	
	Action Mode :	Erase/Program/Verify	
	Program File :	C:\SFWv3\m16c6x_t1.mot	
	Check Sum :	6B12 (User: 0C39, Data: 5ED9)	
	Setting Target Projec	t Maintenance	1
	Action Initialize	UpLoad DownLoad Program	Exit

(Multi Data Mode)

For "Multi Data Mode", see "6.3.1 Maintenance Initial Setting Screen".

1	defau	lt.prj - S	550-SFWv	3 Ver.4.00			
Proj	Project Help						
Г	Inform	ation —					
	No.	Maker	MCU	Туре	Action Mode	Rom	
	1	Renesas	M16C/60	M30626FHPFP/GP	Erase/Program/Ver		
	23	Renesas Renesas	R32C/100 M16C/60	R5F64179DFB/PFB R5F3651TNFC/DFC	Verify Blank/Program/Ver	R32C if√ M16C	
	4	Renesas	R8C/3x	R5F21354ADFP/NFP	Erase/Blank/Progra		
	<					>	
	Settin	a					
	-	-		1	1		
	Targe	et Project	Delete	Сору	Maintenance		
	Action						
	Initialize UpLoad DownLoad Program Exit						

(Multi CH Mode)

For "Multi CH Mode", see "6.3.1 Maintenance Initial Setting Screen".

👺 default.prj - S550-SFWv3 Ver.4.00	
<u>P</u> roject <u>H</u> elp	
Information	
Maker: Renesas	
MCU: M16C/60	Multi PG
Type: M30626FHPFP/GP	
ROM Size : 384Kbyte+4Kbyte	
Action Mode : Erase/Program/Verify	
Program File : C:\SFWv3\m16c6x_t1.mot	
Check Sum : 6B12 (User: 0C39, Data: 5ED9)	
Setting	
Target Project Maintenance	
Action	
Initialize UpLoad DownLoad Program	Exit

<Information section>

Items	Descriptions		
Maker :	Shows MCU manufacture.		
MGU :	Shows MCU series.		
Type :	Shows MCU model. * The device displayed "(ECC)" after the device name can write the E2 data flash in [ECC Available]. * The device displayed "(NO ECC)" after the device name can write the E2 data flash in [No ECC]. * The device displayed "(Little)" after the device name can write the user's program in little endian. * The device displayed "(Big)" after the device name can write the user's program in big endian.		
ROM Size :	Shows total ROM block size.		
Action Mode :	Shows the process executed.		
Program File :	Shows the user's program name with the path.		
Check Sum :	Shows the check sum of all areas, user area and data area in the user's program. (Lower 2 bytes of the data after all data is summed up by every byte are shown. The addresses not included in the user's program are calculated as FFh.) * The user area check sum indicates the check sum of the User area. The data area check sum indicates the check sum of other areas.		

<Setting section>

Items	Descriptions
Target Project	Moves to device setting screen. (See "6.2.1 Device Setting Screen".)
Maintenance	Moves to maintenance screen. (See "6.3.1 Maintenance Initial Setting Screen".)
Delete	Deletes each data in "Multi Data Mode".
Сору	Copies one data onto another arbitrary data in "Multi Data Mode".

<Action section>

Items	Descriptions
Initialize	Initializes all S550-SFWv3 internal memory. * Pressing the start button on S550-SFWv3 for 5 seconds executes the same operation.
UpLoad	Uploads the program data stored in S550-SFWv3 to the control software.
DownLoad	Downloads the set program data to S550-SFWv3. * When the program data on S550-SFWv3 and the data on the control software match, downloading will not be executed.
Program	Stores the set program data on S550-SFWv3 and moves to the execution screen (Program).
Exit	Exits the control software.

<Project menu>

Iter	ns	Descriptions
<u>P</u> roject		"New": Discards the current settings and starts new setting.
New	Ctrl+N	"Open": Opens a project file.
Open	Ctrl+O	"Save As": Saves a project file with a new name.
Save As	Ctrl+S	"Recent File": Shows project files recently used.
<u>1</u> default.pr	j	"Exit": Exits the control software.
E <u>x</u> it	Alt+F4	

<Help menu>

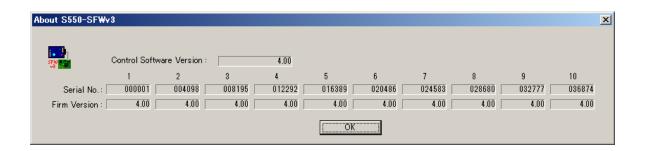
Items	Descriptions
<u>H</u> eip	"About S550-SFWv3": Opens About screen.
<u>A</u> bout S550−SFWv3	(See "6.1.2 About screen")
Manual	"Manual": Shows S550-SFWv3 user's manual (this document).

6.1.2. About Screen

(Single CH Mode)

About S550-SFW	v 3	×
Serial No.:	Control Software Version :	4.00
Firm Version :	4.00	
	<u>OK</u>	

(Multi CH Mode)



Items	Descriptions
Control Software Version :	Shows the control software version.
Serial No. :	Shows S550-SFWv3 serial number. * It queues up in order of the serial number in the "Multi CH Mode".
Firm Version :	Shows S550-SFWv3 firm version.
C OK	Closes the screen.

6.1.3. Initialize Setting Screen

The following screen is displayed only in the "Multi CH Mode".

Initialize S	etting
S550-SFw	V3 Connecting
🔽 CH 01	0000001 All Check
🔽 CH 02	004098 All Uncheck
🔽 СН 03	008195
🔽 CH 04	012292
💌 CH 05	016389
🔽 CH 06	020486
🔽 CH 07	024583
🔽 CH 08	028680
🔽 СН 09	032777
CH 10	036874
	Cancel

<<S550-SFWv3 Connecting section>>

Items	Descriptions
CH 01	Selects channels that will be initialized.
S/N	Shows S550-SFWv3 serial number. * It queues up in order of the serial number in the "Multi CH Mode".
All Check	All channels will be initialized.
All Uncheck	All channels will not be initialized.
ОК	Closes the screen. * After closing the screen, initialize all selected S550-SFWv3 internal memory.
Cancel	Closes the screen.

6.1.4. UpLoad Setting Screen

The following screen is displayed only in the "Multi CH Mode".

UpLoad Set	ting	
S550-SFW	-3 Connecting S/N	UpLoad Password
CH 01	000001	
C CH 02	004098	
C CH 03	008195	Password Check
C CH 04	012292	
C CH 05	016389	
C CH 06	020486	
C CH 07	024583	
C CH 08	028680	
C CH 09	032777	
C CH 10	036874	
	ОК	Cancel

<<S550-SFWv3 Connecting section>>

Items	Descriptions
O OH 01	Selects channel that will be uploaded.
S/N	Shows S550-SFWv3 serial number. * It queues up in order of the serial number in the "Multi CH Mode".
ОК	Closes the screen. * After closing the screen, upload the program data stored in the selected \$550-\$FWv3 to the control software.
Cancel	Closes the screen.

<<UpLoad Password section>>

Items	Descriptions
UpLoad Password —	Inputs a password. Maximum of 8 single byte characters can be inputed.
Password Check	After inputing password to the "UpLoad Password" text box and clicking the "Password Check" button, The channel for which password is suitable will become effective.

6.1.5. DownLoad Setting Screen

The following screen is displayed only in the "Multi CH Mode".

DownLoad	Setting		
C S550-SFW	/v3 Connecting		
🔽 CH 01	S/N 000001	DownLoad X	All Check
🔽 CH 02	004098	×	All Uncheck
🗆 СН 03	008195	0	
🔽 СН 04	012292	X	
🔽 СН 05	016389	X	
🗆 СН 06	020486	0	
🔽 СН 07	024583	×	
🔽 СН 08	028680	X	
🗖 СН 09	032777	0	
CH 10	036874	X	
	OK] Cancel	

<<S550-SFWv3 Connecting section>>

Items	Descriptions
🗖 СН 01	Selects channels that will be downloaded.
S/N	Shows S550-SFWv3 serial number. * It queues up in order of the serial number in the "Multi CH Mode".
DownLoad	Shows the status of download. In the "DownLoad" list, the item of "o" means that the channel is downloaded completely, and the item of "x" means that the channel is not yet downloaded.
All Check	All channels will be downloaded.
All Uncheck	All channels will not be downloaded.
ОК	Closes the screen. * After closing the screen, download the set program data to the selected S550-SFWv3. When the program data on the selected S550-SFWv3 and the data on the control software match, downloading will not be executed.
Cancel	Closes the screen.

6.1.6. Program Setting Screen

The following screen is displayed only in the "Multi CH Mode".

Program Se	tting		
S550-SFW	v3 Connecting		
🔽 CH 01	S/N 000001	DownLoad	All Check
🔽 CH 02	004098	X	All Uncheck
💌 CH 03	008195	0	
💌 CH 04	012292	×	
💌 CH 05	016389	×	
💌 CH 06	020486	0	
🔽 CH 07	024583	×	
🔽 CH 08	028680	X	
🔽 CH 09	032777	0	
🔽 CH 10	036874	X	
	OK	Cancel	

<<S550-SFWv3 Connecting section>>

Items	Descriptions
CH 01	Selects channels that will be programmed.
S/N	Shows S550-SFWv3 serial number. * It queues up in order of the serial number in the "Multi CH Mode".
DownLoad	Shows the status of download. In the "DownLoad" list, the item of "o" means that the channel is downloaded completely, and the item of "x" means that the channel is not yet downloaded.
All Check	All channels will be programmed.
All Uncheck	All channels will not be programmed.
ОК	Closes the screen. * After closing the screen, store the set program data on the selected \$550-SFWv3 and moves to the execution screen (Program).
Cancel	Closes the screen.

6.2. Device Setting Screen

Some items are not displayed or not required to set depending on the particular device.

6.2.1. Device Setting Screen

default.prj - S550-SFWv3 Ver.4.00		
in <u>H</u> elp		
Device		
Maker : Renesas	Communication : Clock synchronous	
MCU : M16C/60	Detail Baudrate : 2Mbps	
Type: M30626FHPFP/GP	Vcc Type : No Supply	
- ROM Size : 384Kbyte+4Kbyte		
Vcc: 3.3 or 5V		
Program File : C:\SFWv3\m16c6x_t1.mot ID Code : 05,09,12,16,1A,1E,23	Check Sum : 6B12 (User: 0C39, Data: 5ED9)	Load Edit
Check ID Code : 05,09,12,16,1A,1E,23		Set ID
Advanced Settings		
Lock Bit Block : Keep Device Lock Bits	Operation Block : All Setup	Set Blocks
	ROM Code Protect : Removed	
Action Mode		
Action Mode © Erase/Program/Verify © Ve © Erase/Blank/Program/Verify © Era	rify C Blank/Program/Verify C Blank	Set

<<Device section>>

Items	Descriptions
Maker :	Select MCU manufacturer.
MCU :	Select MCU series.
Type :	Select MCU model.
	Shows communication method.
	 Single-wire: Single wire Clock-asynchronous serial I/O
	 Clock synchronous: Clock-synchronous serial I/O
Communication :	·Clock synchronous(NO HS): Clock-synchronous serial I/O (No
	handshake)
	•UART: Clock-asynchronous serial I/O
	*Communication will differ depending on the target.
	Select baudrate.
	•Single-wire:
	9.6Kbps - 460.8Kbps
Baudrate :	Clock synchronous:
Daddid to 1	125Kbps - 4Mbps
	•UART:
	9.6Kbps - 460.8Kbps
	*Baudrate will differ depending on the target clock, etc.
	Select voltage supplied from S550-SFWv3.
	•No Supply: Select this option when supplying voltage from external
Vcc Type :	power source to the target board.
	*The voltage will not be supplied from S550-SFWv3.
	•3.3V/5V: Select either when supplying voltage from S550-SFWv3
	to the target board.

Items	Descriptions
Set Vcc	Opens the input vcc setting screen. (See "6.2.12 Input Vcc Setting Screen".)
Input Freq. :	Shows clock frequency.
Set Freq.	Opens the clock frequency setting screen. (See "6.2.3 Clock Frequency Setting Screen".)
Main Multiplier :	Shows main clock frequency.
PerMultiplier :	Shows peripheral clock frequency.
ROM Size :	Shows total block size of the ROM.
Vcc :	Shows voltage required for the device to operate.
Detail	Opens the device detail display screen. (See "6.2.2 Device Detail Display Screen".)

<<Settings section>>

Items	Descriptions
Program File :	Shows the user's program name with the path.
Check Sum :	Shows the check sum of all areas, user area and data area in the user's program. (Lower 2 bytes of the data after all data is summed up by every byte are shown. The addresses not included in the user's program are calculated as FFh.) * The user area check sum indicates the check sum of the User area. The data area check sum indicates the check sum of other areas.
ID Code :	Shows the ID code of the user program.
Check ID Code :	Shows the ID code for device identification. * By loading the user program file, the ID code of the user program is set in little endian. In case of big endian, change the ID code for device identification setting. (See "6.2.9 ID Code for Device Identification Setting Screen".)
Lock Bit Block :	Shows the lock bit block setting.
Operation Block :	Shows the operation block (block to program) setting.
Flash Option :	Shows the flash option setting. You may change this setting on ROM protection setting screen. (See "6.2.11 ROM Protection Setting Screen".)
ROM Code Protect :	Shows the ROM code protection setting.
Security Bit :	Shows the security bit setting. You may change this setting on ROM protection setting screen. (See "6.2.11 ROM Protection Setting Screen".)
Load	Opens a user program file. (See "6.2.4 User Program File Load Screen".)
Edit	Opens the user program edit screen. (See "6.2.5 User Program Edit Screen".)
Set ID	Opens the ID code for device identification setting screen. (See "6.2.9 ID Code for Device Identification Setting Screen".)
Set Blocks	Opens ROM area block information setting screen. (See "6.2.10 ROM Area Block Information Setting Screen".)
Set Protect	Opens ROM protection setting screen. (See "6.2.11 ROM Protection Setting Screen".) *This item is displayed when selecting R32C/100 from the MCU list.
C Erase/Program/Verify	Selects erase, program and verify check execution process.
C Verify	Selects verify check execution process.
C Blank/Program/Verify	Selects blank, program and verify check execution process. This item is selectable in extended operation mode.
C Erase/Blank/Program/Verify	Selects erase, blank, program and verify check execution process. This item is selectable in extended operation mode.
C Erase/Program	Selects erase and program execution process. This item is selectable in extended operation mode.
C Erase/Blank	Selects erase and blank check execution process. This item is selectable in extended operation mode.

Items	Descriptions
C Blank	Selects blank check execution process. This item is selectable in extended operation mode.
O Chip Erase	Selects chip erase execution process. This item is selectable in extended operation mode.
C Read	Selects read execution process. This item is selectable in extended operation mode.
Set	Moves to Main screen.

<<Main m<u>enu>></u>

Items	Descriptions
Main	"Main": Moves to Main screen. *After a confirmation message, setting contents will be discarded.

<<Help menu>>

Items	Descriptions
Help	"About S550-SFWv3": Opens About screen.
About S550-SFWv3	(See "6.1.2 About screen")
<u>M</u> anual	"Manual": Shows S550-SFWv3 user's manual (this document).

6.2.2. Device Detail Display Screen

e: M30626FHPFP/GP		
ss : 0000F	000	
e: 384Kbyte+4K	byte Vcc	: 3.3 or 5V
k:	12	
Start Address	End Address	Size
0000F000	0000FFFF	4Kbyte 64Kbyte
00080000	000BFFFF	64Kbyte
00000000	000CFFFF	64Kbyte
		64Kbyte 64Kbyte
		32Kbyte
000F8000	000F9FFF	8Kbyte
		8Kbyte
		8Kbyte 4Kbyte
	000FFFFF	4Kbyte
	e: 384Kbyte+4K k: Start Address 0000F000 0000000 0000000 0000000 0000000 000000	e: 384Kbyte+4Kbyte k: 12 Start Address End Address 0000F000 0000FFFF 0000000 0000FFFF 000000

Items	Descriptions
Type :	Shows MCU model.
Top Address :	Shows the minimum value of the ROM block address.
Size :	Shows total ROM block size.
Block :	Shows the total number of blocks.
Vcc :	Shows Vcc supply voltage.
OK I	Closes the screen.

6.2.3. Clock Frequency Setting Screen

Input Freq. :	MHz	(OK)
		Cancel

Items	Descriptions
Input Freq. :	Input clock frequency.
OK I	Saves edited contents and exits editing. *The contents of the file will not be changed.
Cancel	Discards edited contents and exits editing. *If there is any change made in edited contents, a confirmation message will be displayed to save edited result.

6.2.4. User Program File Load Screen

User ROM D	ata Load		?
Look in:) m16c6x	• 🖻 (ý 🗊 -
置 <u>m16c6x_t</u> 國 m16c6x_t			
File <u>n</u> ame:	m16c6x_t1		<u>O</u> pen
Files of type:			

Select a user program file to load and press "Open".

When the file is loaded successfully, the file name will be shown in path in "Program File" of "Device Setting Screen".

* File formats shall be Intel HEX format (*.hex) or Motorola S format (*.mot) for a file to be loaded.

6.2.5. User Program Edit Screen

Information	-										1	Size		F Fo	rmat —	
1	Гуре :	M3062	6FHPF	P/GP								•	Byte	G	Hex	
Program	Eile .	C.LCD		0-0-1	1t									-		
Filogram	rrie.	C:\SF\	~v3\mi	есех_с	i.mot							101	Word	1	Signe	d
ROM	Size :	384Kb	yte+4Kb	oyte								C (Dword	C	Unsigi	nec
Address	0	1	2	3	4	5	6	7	8	9	A	Б		D	E	100
0000F000	00	01	02	03	04	05	06	07	06	09	08	06	00	00	OE	- ^
0000F010	ii	12	13	14	15	16	17	18	19	LA	18	10	10	1E	20	-
0000F020	22	23	24	25	26	27	28	29	24	26	20	20	Æ	30	31	
0000F030	33	34	35	36	37	38	39	38	36	30	30	Æ	40	41	42	
0000F040	44	45	46	47	48	49	4.9	48	4C	4D	4E	50	51	52	53	
0000F050	55	56	57	58	59	5A	56	SC	SD	SE	60	61	62	63	64	
0000F060	66	67	68	69	6A	6B	6C	6D	6E	70	71	72	73	74	75	
0000F070	77	78	79	78	7B	70	70	Æ	80	81	82	83	84	85	86	
0000F080	88	89	8A	8B	8C	8D	8E	90	91	92	93	94	95	96	97	
0000F090	99	9A	98	9C	9D	9E	AD	AL	A2	A3	84	A5	A6	A7	AS	
0000F040	AA	AB	AC	AD	Æ	BO	Bl	82	83	B4	85	B6	B7	B 8	69	
0000F060	BB	BC	BD	BE	co	Cl	C2	C3	C4	C5	C6	C7	C8	C9	CA	
0000F0C0	CC	CD	CE	DO	D1	D2	D3	D4	DS	D6	D7	D8	D9	DA	DB	
0000F000	DD	DE	EO	El	E2	E3	E4	ES	E6	E7	E8	E9	EA	EB OC	EC OD	
0000F0E0 0000F0F0	EE	00 11	01	02 13	03 14	04 15	05 16	06 17	07	08 19	09 1A	OA 1B	06	10	111	
0000F100	10 21	22	23	24	25	26	27	28	18 29	28	26	20	20	Æ	30	
0000F110	32	33	34	35	36	37	38	20 39	38	38	30	30	æ	40	41	
0000F120	43	44	45	46	47	48	49	48	46	40	40	4E	50	51	52	
0000F130	54	55	56	57	58	59	58	58	SC	50	SE	60	61	62	63	
0000F140	65	66	67	68	69	6A	68	60	6D	6E	70	71	72	73	74	
0000F150	76	77	78	79	78	78	70	70	Æ	80	81	82	83	84	85	
0000F160	87	88	89	8A	88	8C	8D	8E	90	91	92	93	94	95	96	
0000F170	98	99	9A	98	90	9D	9E	AO	AL	A2	A3	84	AS	AS	A7	
0000F180	A9	AA	AB	AC	AD	Æ	BO	B1	82	63	B4	85	B6	87	B 8	
0000F190	BA	BB	BC	BD	BE	co	C1	C2	C3	C4	CS	C6	C7	C8	C9	V
<	0.000													7.735	>	1

Items	Descriptions
Type :	Shows MCU model.
Program File :	Shows the user's program name with the path.
ROM Size :	Shows total ROM block size.
Size	Select "Byte" to change data units to bytes.
Byte Byte	Select "Word" to change data units to words.
C Dyte	Select "Dword" to change data units to Dwords.
🔿 Word	
O Dword	
- Format	Select "Hex" to change data display format to Hex format.
• Hex	Select "Signed" to change data display format to Signed format.
• Hex	Select "Unsigned" to change data display format to Unsigned
C Signed	format.
O Unsigned	

Items	Descriptions
Eind	Searches user's program data or address. (See "6.2.6 User's Program Data Search Screen".)
Fill	Fills the selected area with the identical data. (See "6.2.7 User's Program Data Setting Screen".)
Save	Saves (overwrites) current edit data as a file. (See "6.2.8 User's Program Data Saving Screen".)
<u>U</u> ndo(All)	Returns to the original status before editing.
OK.	Saves edited contents and exits editing. *The contents of the file will not be changed.
Cancel	Discards edited contents and exits editing. *If there is any change made in edited contents, a confirmation message will be displayed to save edited result.

6.2.6. User's Program Data Search Screen

Find	X
Find C Address C Data(Hex)	
ОК	Cancel

Items	Descriptions
Address	Input address to search. *An error message appears when inputting non-existing address.
Data(Hex)	Input data to search. *Maximum of 8 digits.
СССК	Starts search and closes the screen.
Cancel	Closes the screen without searching.

6.2.7. User's Program Data Setting Screen

II Fill Range			
	000F000	. OOOFFFFF	
Data : FF			ncel

Items	Descriptions
 All 	Selects all area for setting the data.
Address	Selects address range for setting the data. Input the address range in the text box. *An error message appears when inputting non-existing address.
Data :	Input data to set.
OK	Sets the data and closes the screen.
Cancel	Closes the data without setting the data.

6.2.8. User's Program Data Saving Screen

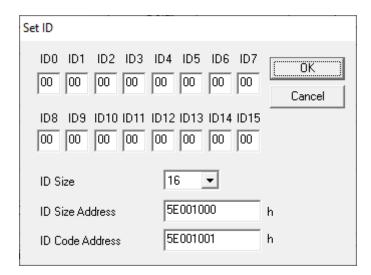
og File Sel				2
Save in: 🔀	SFWv3		<u>▼</u> ← Ē	
🔤 m16c6x_t1	.mot			
	10.0	14		0
File <u>n</u> ame:	m16c6x	1		Save
				<u>S</u> ave Cancel
File <u>n</u> ame: Save as <u>t</u> ype: - Save Rang.	Motorola		•	

Items	Descriptions
• All	Selects all area for saving.
Address	Selects address range for saving. Input the address range in the text box. *An error message appears when inputting non-existing address.

* File formats shall be Intel HEX format (*.hex) or Motorola S format (*.mot) for a file to be saved.

6.2.9. ID Code for Device Identification Setting Screen

(TXZ3 Series)



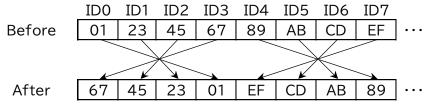
Items	Descriptions
ID0 ID1 05 09	Input the device's ID code. Blank means 00h.
ID Size (PLEN)	Input the ID code length (bytes).
ID Size Address (PNSA)	Input the address of ID code length in device's ROM area. Refer to the device's hardware manual about the input address.
ID Code Address (PCSA)	Input the address of ID code in device's ROM area. Refer to the device's hardware manual about the input address.
OK I	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.

(Except TXZ3 Series)

Set ID	
ID0 ID1 ID2 ID3 ID4 ID5 ID6 05 09 12 16 1A 1E 23	Cancel

Items	Descriptions
ID0 ID1 05 09	Input the device's ID code. Blank means 00h. *The length of ID code depends on the device.
ОК	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.

* By loading the user program file, the ID code of the user program is set in little endian. In case of big endian, change the ID code for device identification as following.



6.2.10. ROM Area Block Information Setting Screen

Lock bits se Keep De Set Lock	vice Lock Bits		
Block	Address	After Lock	Operation
A	0000F000 - 0000FFFF	Lock	Operat
10	000A0000 - 000AFFFF	Lock	⊘ 0perat
9	00080000 - 0008FFFF	Lock	⊘ 0perat [.]
8	000C0000 - 000CFFFF	Lock	⊘ 0perat-
7	000D0000 - 000DFFFF	Lock	⊘ 0perat•
6	000E0000 - 000EFFFF	Lock	⊘ 0perat•
5	000F0000 - 000F7FFF	Lock	Øperat 💊
<			

Items	Descriptions
Keep Device Lock Bits	Selects "Keep Device Lock Bits" for lock bit processing method. Previous lock status will be maintained.
Set Lock Bits	Selects "Set Lock Bits" for lock bit processing method. New lock bit settings will be done with the "Lock Block" check box.
All Lock	Checks all of the Lock Block check boxes in the list.
All Unlock	Unchecks all of the Lock Block check boxes in the list.
All Operation	Checks all of the Operation Block check boxes in the list.
Lock	Sets whether to lock for each block.
☑Operation	Sets whether to program for each block. *Data area (with English capitalized block names), program ROM2 area (with block name "ROM2"), user boot mat area (with block name "BOOT") and E2 data flash area (with block name "E2D") are not set in the initial setting.
OK	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.

6.2.11. ROM Protection Setting Screen

(R32C/100 Series)

et Protect	
All Block Protect (BP0/BP1)	OK
	Cancel

Items	Descriptions
All Block Protect (BP0/BP1)	Sets whether or not to execute BP Bit Program for all BP0 and BP1.
OK	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.

(TXZ3 Series)

Set Protect	
Security bit	ОК
	Cancel

Items	Descriptions
Security bit	Sets whether or not to enable security.
OK I	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.

(78K Family, RL78 Family or RX100 Series)

Set Protect
✓ Flash Option

Flash Option Security Setting
🔲 Disable Chip Erase 🔲 Disable Block Erase
🗖 Disable Program 🔲 Disable Read
Disable Boot Block Cluster Programming
🔽 Enable Flash Shield
Protect Setting
Start of Flash Shield Block Number :
End of Boot Block Number : 3
Other Setting
Reset Vector Address : 00000000 h
OCD Security ID : FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
OPBT0: 00000000
OK Cancel

Items	Description	
🗾 Flash Option	Sets whether or not to execute Flash Option.	
🔲 Disable Chip Erase	Execution of the chip erase command is disabled.	
Disable Block Erase	Execution of the block erase command is disabled.	
🔲 Disable Program	Execution of the write command is disabled.	
🗖 Disable Read	Execution of the read command is disabled.	
Disable Boot Block Cluster Programming	Writing to the boot area is disabled.	
Enable Flash Shield	Flash shield window is enabled.	
Start of Flash Shield Block Number :	Select the start block of the flash shield window.	
End of Flash Shield Block Number :	Select the end block of the flash shield window.	
End of Boot Block Number :	Select the end block of the boot area.	
Reset Vector Address :	Input the reset vector address of the microcontroller.	
OCD Security ID :	Input the on-chip debug security ID.	
OPBT0 :	Input the option byte.	
OK.	Reflects the setting content and closes the screen.	
Cancel	Discards the setting content and closes the screen.	

6.2.12. Input Vcc Setting Screen



Items	Descriptions
V	Input vcc.
OK	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.

6.3. Maintenance Setting Screen

6.3.1.	Maintenance	Initial	Setting	Screen
0.5.1.	mannee	mun	Secting	Dereen

	_	0 01 1		
A. 12 - 1	Ena	Save Directory	(x86)\\$550-\$FWv3\	
Action Log :	V	ju. verografit elles	(x00)\5550-5FWY5\	
Project File:		C:\Program Files	(x86)\S550-SFWv3\	
⊢ Hardware Setting	ı ——			
Buzzer		Password —		
Mute		Enable	Password Change	
L Action Setting —			Power Save Setting	
Action Setting —	oansion Action) Mode	Power Save Setting Enable Power Save Mode	
) Mode		
🔲 Enable Exp	,) Mode	Enable Power Save Mode	
Multi Data Setting	,) Mode	FA Setting	

<Initial Setting section>

Items	Descriptions
Ena	Enables saving the action log (operation execution log).
Save Directry C:¥SFWv3¥ C:¥SFWv3¥	Set saving destination for the action log (operation execution log), and project (device setting) file.
Mute	Mutes S550-SFWv3 main unit's buzzer sound.
Enable	Enables a password for S550-SFWv3 main unit. Uploading data to program will require the password when the password is enabled for security protection. *The password can be set in the password setting screen. (See "6.3.2 Password Setting Screen")
Password Change	Opens the password setting screen. (See "6.3.2 Password Setting Screen")
Enable Expansion Action Mode	Enables extended operation mode. *Standard operation mode will be enabled when this box is unchecked. •Standard operation mode: "Erase/Program/Verify" and

	"Verify" and be selected in the device setting screen.
	•Extended operation mode: In addition to the standard
	operation mode, "Blank/Program/Verify",
	"Erase/Blank/Program/Verify","Erase/Program",
	"Erase/Blank", "Blank", "Chip Erase" and "Read" can be
	selected in the device setting screen. "Chip Erase" or "Read"
	cannot be selected depending on the particular device.
Enable Power Save Mode	Enables power saving for S550-SFWv3 main unit.
	Enables "Multi Data Mode".
	•Multi Data Mode: Maximum of 4 data can be set/downloaded
Enable Multi Data Mode	in the main screen.
	* Cannot be used in combination with "Multi CH Mode". When
	you enable "Multi Data Mode", "Multi CH Mode" is
	automatically disabled.
	Enables FA mode.
🔲 Enable FA Mode	* For details, see the [S550-SFWv3 FA Mode Operation
	Manual].
	Enables "Multi CH Mode".
	* For details, see the "7.2 Multi CH Mode".
🔲 Enable Multi CH Mode	* Cannot be used in combination with "Multi Data Mode".
	When you enable "Multi CH Mode", "Multi Data Mode" is
	automatically disabled.
	Enables switch operation on S550-SFWv3 main unit while the
	control software is running.
	It is possible to program in Stand-alone Mode or FA mode
	while checking the device setting with the control software.
Enable Standalone	* When this check box is unchecked, switch operation on
	S550-SFWv3 main unit is disabled while the control software is
	running.
	* When "Execution Screen" is displayed, switch operation on
	S550-SFWv3 main unit is disabled even if this check box is
	checked. It is enabled by going back to "Main Screen".
	Reflects the setting content and closes the screen.
OK I	* The setting content of Enable Standalone is not reflected
Landon Million and	when the screen is closed. To reflect the setting content, save
	the project file and restart the control software.
Cancel	Discards the setting content and closes the screen.
Logging Man	Moves to Execution operation log display screen.
Logging View	(See 6.3.3 Execution Operation Log Display Screen".)

6.3.2. Password Setting Screen

New Password:	*****
New Password Check:	*****

Items	Descriptions
	Sets a password. Maximum of 8 single byte characters can be
New Password:	set. *The password is reflected when "Enable" check box is checked in the maintenance screen and download is executed.
New Password Check:	Reenter the password.
COK I	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.

* About the password setting function

- Password is set to S550-SFWv3 main unit. Uploading data to program will require the password when the password is enabled for security protection. Maximum of 8 single byte characters can be set for a password.
- To set a password, check the "Enable" check box in the main screen, set a password in the password setting screen and download the data to program.
- You cannot delete the password only. In case you forgot the password, set a new password and download the data to program.

6.3.3. Execution Operation Log Display Screen

Maintenance		×
Initial Setting Logging View		1
Logging	Line N () (() (Dn
<pre> Cog.</pre>		~
	OK	Cancel

<Logging section>

Items	Descriptions
File Name : C#SFWv3	Select a log file to display contents.
- Line Number — On Off	Show/hide line numbers.
Log :	Shows the operation execution log data. For details, see the "6.3.3.1 Details of Execution Operation Log".
(OK	Reflects the setting content and closes the screen.
Cancel	Discards the setting content and closes the screen.
Initial Setting	Moves to the maintenance screen. (See "6.3.1 Maintenance Setting Screen".)

6.3.3.1. Details of Execution Operation Log

<< About S550-SFWv3 >>

Items	Descriptions
Control Software Version	Shows the version of control software.

<< Device >>

Items	Descriptions
Maker	Shows MCU manufacturer.
MCU	Shows MCU series.
Туре	Shows MCU model.
Communication	Shows communication method.
Baudrate	Shows baudrate.
Vcc Type	Select voltage supplied from S550-SFWv3.

<< Settings >>

Items	Descriptions
Program File	Shows the user program name with the path.
ID Code	Shows the ID code of the user program.
Check Sum	Shows the check sum of the user program.
Check ID Code	Shows the ID code for device identification.
Lock Bit Block	Shows the lock bit block setting.
Operation Block	Shows the operation block (block to program) setting.
ROM Code Protect	Shows the ROM code protection setting.
Security Bit	Shows the security bit setting.
Action Mode	Shows the execution process.

<< Flash Option Setting >>

Items	Descriptions
< Security Setting >	Shows when security setting is enabled.
< Protect Setting >	Shows the setting of flash shield window.

< Security Setting >

Items	Descriptions
Disable Block Erase	Shows when execution of the block erase command is disabled.
Disable Program	Shows when execution of the write command is disabled.
Disable Boot Block Cluster	Shows when writing to the boot area is disabled.
Programming	

< Protect Setting >

Items	Descriptions
Start of Flash Shield Block	Shows the start block of the flash shield window.
Number	Shows "None" when the flash shield window is disabled.
End of Flash Shield Block	Shows the end block of the flash shield window.
Number	Shows "None" when the flash shield window is disabled.
End of Boot Block Number	Shows the end block of the boot area when the flash shield window is enabled.

<< Res<u>ult >></u>

Items	Descriptions
Start Time	Shows the date of starting execution process.
End Time	Shows the date of ending execution process.
СН	Shows the channel number.
Serial No	Shows S550-SFWv3 serial number.
< <xxx>></xxx>	Shows the execution result at "xxx". See "Execution Detail Screen" in the "9.5 List of Center Display and Execution Detail Screen" about execution result. The followings are the displayed strings. - "Err" is left out if the strings of "Execution Detail Screen" includes "Err". For example, "ID" is displayed when checking the ID code failed. - "Entry" is displayed when mode entry failed.

<< Pass/Fail Counter >>

Items	Descriptions
Pass	Shows the success count of execution process.
Fail	Shows the failure count of execution process.

6.4. Execution Screen

6.4.1. Execution Screen

(Single CH Mode)

👺 default.prj - S550-SFWv3 Ver.4.00	
<u>S</u> top <u>C</u> ounter Clear <u>H</u> elp	
┌─ Information ────	1
Maker: Renesas	
MCU: M16C/60	
Type: M30626FHPFP/GP	
ROM Size : 384Kbyte+4Kbyte	Pass/Fail Counter —
Action Mode : Erase/Program/Verify	Pass: 1 Start
Check Sum : 6B12 (User: 0C39, Data: 5ED9)	Fail: 0
Serial No. 000001	:No SFWv3 I Detail View
2011/03/15 09:34:11 Pass: 1 , Fail: 0	

(Multi CH Mode)

🔒 default.prj - 🤅	550-SFV	Vv3 Ver	.4.00							
Stop Counter Clear	Help									
Information										
Maker:	Renesas									
MCU :	M16C/60									_
Type :	M30626FH	IPFP/GP						M	ulti PC	5
ROM Size :	384Kbyte+	4Kbyte			E Pé	ass/Fail C	ounter —			
Action Mode :	Erase/Pro	gram/Verif	у		P	ass:	10		Start	1
Check Sum :	6B12 (Use	r: 0C39, D	ata: 5EDS	9)	F	Fail:	0		oran	1
⊢ Result ———										
:Pass		Fail	:No A	Action 🕅	:No	SFWv3		v ()etail View	,
1	2	3	4	5	6	7	8	9	10	J
	004098	000105	012292	016389	020486	024583	000000	032777	036874	
2011/03/15 10	· · · · · · · · · · · · · · · · · · ·	008195	·	-	020486	024983	028680	032777	036874	_
2011/03/15 10	:13:48 Fa	ss: 10 ,	Fall:	U					^	9
<									>	9
,										

<<Information section>>

Items	Descriptions
Maker :	Shows MCU manufacturer.
MGU :	Shows MCU series.
Type :	Shows MCU model.
ROM Size :	Shows total block size of the ROM.
Action Mode :	Shows execution processing.
Program File :	Shows the user's program name with the path.
Check Sum :	Shows the check sum of all areas, user area and data area in the user's program. (Lower 2 bytes of the data after all data is summed up by every byte are shown. The addresses not included in the user's program are calculated as FFh.) * The user area check sum indicates the check sum of the User area. The data area check sum indicates the check sum of other areas.

<<Pass/Fail Counter section>>

Items	Descriptions		
Pass: 0	Shows the number of successful programming.		
Fail: 0	Shows the number of programming errors.		
Items	Descriptions		
Start	Starts programming.		

<<Result section>>

Items	Descriptions
🗖 Detail view	Enables the "Result" switch.
	Shows programming result. *Yellow-Green means Pass. Red means Fail. Gray means cancel or before operation. Click to open the operation result detail screen when "Detail view" check box is checked.
Serial No.: 000001	Shows S550-SFWv3 serial number.
2007/10/25 14:13:16 Pass: 1 , Fail: 0	Shows execution operation log.

<<Stop menu>>

Items	Descriptions
Stop	"Main": Stops operation and move to the main screen. "Exit": Shows a confirmation message and exit the application.
<u>M</u> ain Exit Alt+F4	Zhi v showe a communication message and one are approximitin

<<Counter menu>>

Items	Descriptions
Counter Clear	"Counter Clear": Shows a confirmation message and clears the
	number of successes and failures in the execution screen.

<<Help menu>>

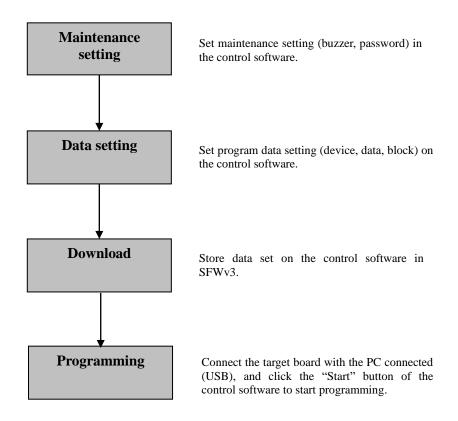
Items		Descriptions	
	Help Manual	"Manual": Shows S550-SFWv3 user's manual (this document).	

7. Remote Mode

7.1. Single CH Mode

- 7.1.1. Remote Programming
 - 7.1.1.1. Process Flow up to Programming

The following section describes the operations from setting the programming data on the control software to actually programming the target.



7.1.1.2. Maintenance Settings

With the control software, you can change S550-SFWv3 main unit setting. The following illustrates an example of the maintenance setting.

- 1 Go to the maintenance setting screen
- Click the "Maintenance" button and move to the maintenance screen.

🚟 default.prj - S550-SFWv3 Ver.4.00	
Project Help	
_ Information	
Maker:	
MCU :	
Туре:	
ROM Size :	
Action Mode :	
Program File :	
Check Sum :	
Setting Target Project Maintenance	
Action Initialize UpLoad DownLoad Program	Exit

- ② Save execution operation log
- Check the "Ena" check box to save execution operation log. To select the saving destination for execution operation log, click the "Save Directory" button and select the destination in the open file dialog. -

Maintenance	
Initial Setting Logging View	
Initial Setting	
Action Log :	Save Directory C:\Program Files\S550-SFWv3\
Project File:	C:\Program Files\S550-SFWv3\
Hardware Setting	
Buzzer	Password
Mute	Enable Password Change
Action Setting	Mode Fower Save Setting Enable Power Save Mode
Multi Data Setting	FA Setting
Enable Multi Data Mode	Enable FA Mode
Multi CH Setting	
🔲 Enable Multi CH Mode	
	OK Cancel

- 3 Save device setting file
 To select the saving destination for the device setting file, click the "Save Directory" button and select the destination in the open file dialog.

Maintenance 🛛
Initial Setting Initial Setting Directory Setting Ena Save Directory Action Log : ✓ Project File: C:\Program Files\S550-SFWv3\
Hardware Setting Buzzer Password Mute Enable Password Change Action Setting Power Save Setting
Image: Enable Expansion Action Mode Image: Enable Power Save Mode Multi Data Setting FA Setting Image: Enable Multi Data Mode Image: Enable FA Mode
Multi CH Setting Enable Multi CH Mode OK Cancel

- (4) Set password
- Check the "Enable" check box to set a password to S550-SFWv3 main unit. Uploading data to program will require the password when the password is enabled for security protection.
- To set a password, click "Password Change" to open the password setting screen, and a password can be set in the password setting screen.

Maintenance	X
Initial Setting Logging View	
│ Initial Setting ────────────────────────────────────	
Ena Save Directory Action Log : Image: C:\Program Files\S550-SFWv3\	
Project File: C:\Program Files\S550-SFW/v3\	
Hardware Setting	
Buzzer Password Mute Enable Password Change	
Action Setting — Power Save Setting — Fower Save Setting — Fower Save Mode	
Multi Data Setting	
Enable Multi Data Mode Enable FA Mode	
Multi CH Setting	
Enable Multi CH Mode	
	Cancel

- **(5)** Select extended operation mode
- Check the "Enable Expansion Action Mode" check box to select the extended operation mode. Standard operation mode will be enabled when this box is unchecked.
- Standard operation mode: "Erase/Program/Verify" and "Verify" can be selected in the device setting screen.
- Extended operation mode: In addition to the standard operation mode, "Blank/Program/Verify", "Erase/Blank/Program/Verify", "Erase/Program", "Erase/Blank", "Blank", "Chip Erase" and "Read" can be selected in the device setting screen. "Chip Erase" or "Read" cannot be selected depending on the particular device.

Maintenance
Initial Setting Logging View
Initial Setting Directory Setting Ena Save Directory Action Log : ✓ C:\Program Files\S550-SFWv3\ Project File: C:\Program Files\S550-SFWv3\
Hardware Setting Buzzer Mute Password Password Change
Action Setting Enable Expansion Action Mode Finable Power Save Mode
Multi Data Setting FA Setting Enable Multi Data Mode Enable FA Mode
Multi CH Setting
OK Cancel

"Device Setting Screen" in Standard operation mode

- Action Mode		
C Erase/Program/Verify	O Verify	

"Device Setting Screen" in Extended operation mode

Г	Action Mode			
	C Erase/Program/Verify	O Verify	C Blank/Program/Verify C I	Blank
	C Erase/Blank/Program/Verify	C Erase/Program	🔿 Erase/Blank 🔿 Chip Erase	C Read

6 Select power saving mode

•

Check the "Enable Power Save Mode" check box to set power saving mode of the S550-SFWv3 main unit.

*When power saving mode is set, programming duration, download duration will be longer, but the consumption current will be lower than the standard mode. In the power saving mode, the center display of the S550-SFWv3 will be off and [FUNC] switch will be disabled.

Maintenance				×							
Initial Setting Logging View											
 Initial Setting Directory Setting Ena 	Save Directory										
Action Log : C:\Program Files\S550-SFW/v3\											
Project File:	C:\Program Files\S550)-SFWv3\									
Hardware Setting											
Buzzer Mute	Password	ssword Change									
Action Setting	Mode	Power Save Setting	Mode								
Multi Data Setting		FA Setting									
🔲 Enable Multi Data Mode		🔲 Enable FA Mode									
Multi CH Setting											
			OK	Cancel							

- ⑦ Select mute
 - Check the "Mute" check box to mute S550-SFWv3 main unit's buzzer sound.

Maintenance	X
Initial Setting Logging View Initial Setting	
Hardware Setting Buzzer Password Image: Description of the setting Action Setting Image: Description of the setting Image: Descrip	
Multi Data Setting FA Setting Enable Multi Data Mode Enable FA Mode Multi CH Setting Enable Multi CH Mode	
OK Cancel	

- (8) Select "Multi Data Mode"
 - Check the "Enable Multi Data Mode" check box to set the "Multi Data Mode".
 - Maximum of 4 data can be set or downloaded in the main screen in the "Multi Data Mode". When the power saving mode is set, the center display of the S550-SFWv3 will be off and [FUNC] switch will be disabled. Therefore, the data with the smallest data number only can be programmed with the stand alone programming.

Maintenance	×
Initial Setting Initial Setting Directory Setting Ena Save Directory Action Log : ✓ Project File: C:\Program Files\S550-SFWv3\	
Hardware Setting Buzzer Password Image: Mute Image: Password Change Action Setting Power Save Setting Image: Password Change Image: Password Change Action Setting Image: Power Save Setting Image: Password Change Image: Password Change Image: Password Change Image: Password Change<	
Multi Data Setting Enable Multi Data Mode Multi CH Setting Enable Multi CH Mode	
OK Cancel	

- (9) Select "Multi CH Mode"
 - Check the "Enable Multi CH Mode" check box to set the "Multi CH Mode". Please see "7.2.1.2 Maintenance Settings" for details.

Maintenance
Initial Setting Logging View Initial Setting
Hardware Setting Buzzer Password Image Password Change Action Setting Power Save Setting Image Image Power Save Setting Image
Image: Constraint of the setting definition of the setting defini
Enable Multi CH Mode OK Cancel

7.1.1.3. Data Settings

With the control software, you can set the data to program. The following illustrates an example of the programming data setting.

- ① Start up control software
 - Start S550-SFWv3 control software.
- ② Go to the device setting screen
 - (Single Data Mode)
 - Click the "Target Project" button and move to the device setting screen.

🚟 default.prj - S550-SFWv3 Ver.4.00	
Project Help	
Information	
Maker:	
MCU :	
Туре:	
ROM Size :	
Action Mode :	
Program File :	
Check Sum :	
Setting	
Target Project Maintenance	
Action	
Initialize UpLoad DownLoad Program	Exit

(Multi Data Mode)

- Select data #1-#4 and click the "Target Project" button and move to the device setting screen of the data selected.
- The data displayed "NO USE" cannot be selected as the area is used for the previous data.

	defau	lt.prj - S	550-SFW	v3 Ver.4.00							
Proj	ject <u>H</u>	elp									
	Inform	ation ——									
	No.	Maker	MCU	Туре	Action Mode	Rom File					
	1 2	Renesas	M16C/60	M30626FHPFP/GP	Erase/Program/Verify	m16c6×_t1.					
	3		RX600	R5F56108VDFP/NFP	Erase/Program/Verify	RX610.mot					
	4 NO USE										
	<		>								
	Setting Targe	et Project	Delet	е Сору	Maintenance						
	Action	tialize	UpLoa	ad DownLoad	Program	Exit					

③ Select a device

.

Select the target	device	from	"Maker"	list.	"MCU"	list and	"Type"	list.
Select the target	40,100	nom	Trunci	1100,	10100	mot und	1,00	mot.

🚆 default. prj - S550-SFWv3 Ver. 4.00	
Main Help	
Device Maker Communication : ICU : Upe : Vcc Type : Vcc :	
Settings	
Program File :	Load
ID Code : Check Sum :	E dit
Check ID Code :	Set ID
Advanced Settings	
Lock Bit Block : Operation Block :	Set Blocks
ROM Code Protect :	
Action Mode C Erase/Program/Verify C Verify	Set

- ④ Select communication method, baudrate and power supply
 - Select your communication method from the "Communication" list, baudrate from "Baudrate" list, and power supply from the S550-SFWv3 main unit from the "Vcc Type" list.
 - *When supplying voltage from an external power source to the target board, select "No Supply" in the "VCC Type" list, and when supplying voltage from S550-SFWv3, select "3.3V" or "5V". When display "Set Vcc" button, input vcc. *For stand-alone programming, select "No Supply" in the "Vcc Type" list.

🚆 default.prj - S550-SFWv3 Ver.4.00	
Main Help	
Device	
Maker : Renesas Communication : Clock synchronous	
MCU : M16C/60 🗾 🗾 Detail 🖉 Baudrate : 2Mbps	- E - E - E - E - E - E - E - E - E - E
Type : M30626FHPFP/GP	
ROM Size : 384Kbyte+4Kbyte	
Vcc : 3.3 or 5V	
Settings	
Program File :	Load
ID Code : Check Sum :	Edit
Check ID Code : 00,00,00,00,00,00,00	Set ID
Advanced Settings	
Lock Bit Block : Keep Device Lock Bits Operation Block : Selective Setup	Set Blocks
ROM Code Protect :	
- Action Mode	
C Erase/Program/Verify C Verify	Set

- (5) Select clock frequency
 - Click "Set Freq" button, input the clock frequency of the target board and select the clock multiplying rate from the "Main Multiplier" and "PerMultiplier" list.

🚆 default. prj - S550-SFWv3 Ver.4.00	
<u>M</u> ain <u>H</u> elp	
C Device	
Maker: Renesas Communication: UART	•
MCU : SH/Tiny Detail Baudrate : 9600bps	•
Type : R5F71253N50FP/FA/NP Vcc Type : No Supply	-
ROM Size : 128Kbyte Input Freq. : 12.00 MH	Hz Set Freq
Vcc : 5V Main Multiplier : 1 🗨 PerMultipli	ier : 1
Settings	
Program File :	Load
ID Code : Check Sum :	Edit
Check ID Code :	Set ID
Advanced Settings	
Lock Bit Block : Keep Device Lock Bits Operation Block : All Setup	Set Blocks
ROM Code Protect :	
Action Mode	
C Erase/Program/Verify C Verify C Blank/Program/Verify C Blank	Set
C Erase/Blank/Program/Verify C Erase/Program C Erase/Blank	

- 6 Select user program file
 - Click the "Load" button and select a program file (*.mot, *.s, *.hex) in the open file dialog.
 *Selecting user program file is not required when you select "Erase/Blank", "Blank", "Chip Erase" or "Read" as "Action Mode".
 *By selecting the user program file, the ID code of the user program is set in little endian to "ID Code" and "Check ID Code". In case of big endian, change "Check ID Code". (See "⑦ Edit data".)

🔛 default	t.prj - S550-SFWv3 Ver.4.00					
<u>M</u> ain <u>H</u> elp						
- Device-						
Maker:	Renesas	•	Commun	nication :	Clock synchronous	
MCU :	M16C/60	• [Detail B.	audrate :	2Mbps 💌	
Type :	M30626FHPFP/GP	•	Vo	c Type :	No Supply 💌	
RO	IM Size : 384Kbyte+4Kbyte					
	Vcc : 3.3 or 5V					
Settings						
	Program File : C:\SFWv3\m16c6x_t1.	mot				Load
	ID Code : 05,09,12,16,1A,1E,23		Checl	k Sum :	6B12 (User: 0C39, Data: 5ED9)	Edit
Check	ID Code : 05,09,12,16,1A,1E,23					Set ID
- Adv	vanced Settings					
	Lock Bit Block : Keep Device Lock	Bits	Operation Block	: All Se	etup	Set Blocks
		F	ROM Code Protect	: Remo	oved	
Acti	ion Mode				· · · · · · · · · · · · · · · · · · ·	
	C Erase/Program/Verify	C Verify	🔘 Blank.	/Program/	/Verify 🔿 Blank	
	C Erase/Blank/Program/Verify	C Erase/Program	m C Erase.	/Blank		Set

⑦ Edit data .

Data is editable by clicking the "Edit" button, "Set ID" button, "Set Block" button" and/or "Set Protect" button.

*For Editing, see "6.2.5 User Program Edit Screen", "6.2.9 ID Code for Device Identification Setting Screen", "6.2.10 ROM Area Block Information Setting Screen", and "6.2.11 ROM Protection Setting Screen". *V

With	the default setting,	DAT	FA area	, pro	ogran	1 RC	DM2	area,	user	boot ma	t area ai	nd E2	data	flash	area	are	not	set

*Edited contents are saved in the project file. For the project file, see "1 Save project (device setting) file".

🚆 default.prj - S550-SFWv3 Ver.4.00	
Main Help	
Device Maker : Renesas MCU : M16C/60 Type : M30626FHPFP/GP ROM Size : 384Kbyte+4Kbyte Vcc : 3.3 or 5V	
Settings Program File : [C:\SFWv3\m16c6x_t1.mot Load ID Code : [05,09,12,16,1A,1E,23 Check Sum : [6B12 (User: 0C39, Data: 5ED1)] Edit Check ID Code : [05,09,12,16,1A,1E,23 Set I	
Advanced Settings Lock Bit Block : Keep Device Lock Bits Operation Block : All Setup ROM Code Protect : Removed	cka
Action Mode C Erase/Program/Verify C Blank/Program/Verify C Blank C Erase/Blank/Program/Verify C Erase/Program C Erase/Blank	

(8) Select execution process

- Select an execution process from the "Action Mode" radio buttons.
- *With the default setting, no process is selected. *To select "Blank/Program/Verify", "Erase/Blank/Program/Verify", "Erase/Program", "Erase/Blank", "Blank", "Chip Erase" or "Read", check the "Enable Expansion Action Mode" check box in the maintenance screen. "Chip Erase" or "Read" cannot be selected depending on the particular device.

/laker:	Toshiba	•		Communication :	UART	•	
MCU :	TXZ3	•	Detail	Baudrate :	460800bps	•	
Type :	ТМРМЗНQFDFG	-		Vcc Type :	No Supply 💌		
RO	M Size : 512Kbyte						
	Vcc : 3.3 or 5V						
	Program File : C:\SFWv3\TXZ3_512k	chex					ad
	Program File : C:\SFWv3\TXZ3_512k D Code :	k.hex		Check Sum :	F134		ad Idit
	,		00,00,00	Check Sum :	F134	E	
Check	D Code :			Check Sum :		E Se	dit
Check	D Code : 00,00,00,00,00,00,00,00,00					E Se Set E	idit et ID
Check	D Code : 00,00,00,00,00,00,00,00,00 D Code : 00,00,00,00,00,00,00,00 anced Settings Lock Bit Block : No Lock Bits		Opera		stup	E Se Set E	idit et ID Blocks

- (9) Confirm data
 - Confirm whether programming data is correct. •
 - After checking, click the "Set" button and move to the main screen.

👪 default.prj - S550-SFWv3 Ver.4.00	
<u>M</u> ain <u>H</u> elp	
Device	
Maker : Renesas 🗾 Communic	cation : Clock synchronous
MCU : M16C/60 Detail Bau	idrate : 2Mbps
Type : M30626FHPFP/GP Vcc	Type: No Supply
ROM Size : 384Kbyte+4Kbyte	
Vcc : 3.3 or 5V	
Settings	
Program File : C:\SFWv3\m16c6x_t1.mot	Load
ID Code : 05,09,12,16,1A,1E,23 Check \$	Sum : 6B12 (User: 0C39, Data: 5ED9) Edit
Check ID Code : 05,09,12,16,1A,1E,23	Set ID
Advanced Settings	
Lock Bit Block : Keep Device Lock Bits Operation Block :	All Setup Set Blocks
ROM Code Protect :	Removed
Action Mode	
	Program/Verify © Blank
C Erase/Blank/Program/Verify C Erase/Program C Erase/B	ilank Carlos Carlo

(1) Save project (device setting) file

(Single Data Mode)

- You can save the contents set in the device setting screen and maintenance screen as a project file.
- Select "Save As" from the "Project" menu to save a project file.

	🔛 default.prj - S550	-SFWv3 Ver.4.00	
	<u>Project</u> <u>H</u> elp		
	New Ctrl+N		
6	Open. Ctrl+O Save As Ctrl+S	Jas	
	1 default.prj	/60	
	Exit Alt+F4	26FHPFP/GP	
	ROM Size : 384	Kbyte+4Kbyte	
	Action Mode : Eras	e/Program/Verify	
	Program File : C:\S	FWv3\m16c6x_t1.mot	
	Check Sum : 681	2 (User: 0C39, Data: 5ED9)	
	Setting	Maintenance	
	Action		
	Initialize	UpLoad DownLoad Program	Exit

(Multi Data Mode)

- You can save the contents set in the device setting screen and maintenance screen as a project file.
- Select "Save As" from the "Project" menu to save a project file.
- The contents set for the data 1 through 4 will be saved as a single project file.

		3 Ver.4.00	0-SFWv	ılt.prj - S55	🔡 defa
				Help	Project
	Action Mode	T :		Ctrl+N Ctrl+O	New Open
Rom m16c R32C M16C	Action Mode Erase/Program/Verify Verify Blank/Program/Verify	Type M30626FHPFP/GP R5F64179DFB/PFB R5F3651TNFC/DFC	260 /100 /60		Save a
		R5F21354ADFP/NFP	— 3×	Alt+F4	Exit
>					<
				ig	- Sett
	[Maintenance]	Сору	Delete	et Project	Tar
Exit	Program E	DownLoad	UpLoad	n iitialize	Acti
	Program	DownLoad	UpLoad		

① Load a project file

- Load the project file (device setting information and maintenance screen information) saved with the operation10 described above.
- Select "Open" from the "Project" menu to load a project file.
- *The previously saved project file will be loaded when starting up the control software.
- The "Single Data Mode" main screen opens when a project file saved in the "Single Data Mode" is loaded, and the "Multi Data Mode" main screen opens when a project file saved in the "Multi Data Mode" is loaded.

🚟 default.prj - S550-SFWv3 Ver.4.00	
Project Help	
New Ctrl+N	
Open Ctrl+O	
Save As Ctrl+S	
1 default.prj	
Exit Alt+F4	
ROM Size :	
Action Mode :	
Program File :	
Check Sum :	
Setting Target Project Maintenance	
Action Initialize UpLoad DownLoad Program	Exit

Discard device setting

(Single Data Mode)

- You can discard the contents set in the device setting screen.
- Select "New" from the "Project" menu to discard the device setting.

	🔡 default.prj -	550-SFWv3 Ver.4.00	
	<u>Project</u> <u>H</u> elp		
9	New Ctr		
	Open Ctr	O las	-
	Save As Ctr	5	
	1 default.prj	/60	1
	Exit Alt-	=4 26FHPFP/GP	
	ROM Size :	384Kbyte+4Kbyte	
	Action Mode :	Erase/Program/Verify	
	Program File	C:\SFWv3\m16c6x_t1.mot	
	Check Sum :	6B12 (User: 0C39, Data: 5ED9)	
	Setting		
	Target Proje		
	Action —		
	Initialize	UpLoad DownLoad Program	Exit

(Multi Data Mode)

- Select "New" from the "Project" menu to discard all the device settings.
- For discarding each device setting, select the data 1-4 and click the "Delete" button.

🔛 defau	lt.prj - \$550	SFWv3 Ver.4.00	
Project H	lelo		
New	Ctrl+N		
Open Save As	s Ctrl+S	Type Action Mode /60 M30626FHPFP/GP Erase/Program /100 R5F64179DFB/PFB Verify /60 R5F3651TNFC/DFC Blank/Program	R 320
Exit	Alt+F4		Program/Verify R8C3
Settin	g et Project	Delete Copy Maintenand	
Action	itialize	JpLoad DownLoad Program	Exit

- Copy device setting (Only in the "Multi Data Mode")
 Select data of the copy origin and click the "Copy" button and move to the "Copy Information" screen. •
 - Select number of the copy destination and click the "OK" button.

🖶 default.prj - S550-SFWv3 Ver.4.00								
Pro	ject <u>F</u>	<u>t</u> elp						
	Inform	ation —						
	No.	Maker	MCU	Туре	Ac	tion Mode	Rom	
	1	Renesas	M16C/60	M30626FHPFP/GP	Er	ase/Program/Verify	m16c	
	2 3 4							
	<					Copy Information		×
						🚽 Information ——		
	- Settin	g et Project	Delete			□ No.1		
	Taiyi	ermoject	Delete	сору				
	Action	ŋ ———				▼ No.2		
		itialize	UpLoa	d DownLoad	1	🗖 No.3		
						□ No.4		
						ок	Cancel	

7.1.1.4. Remote Programming

The following procedures show how to program the programming data stored in S550-SFWv3 to the target (Program).

- ① Connect PC, S550-SFWv3 main unit and the target board
 - Connect PC and S550-SFWv3 with USB, and S550-SFWv3 and the target board with the target connecting cable.
 *For connection in remote programming mode, see "Connection for Remote Programming".
- 2 Confirm S550-SFWv3 start up
 - For the LED and buzzer status at the startup, see "9.2 Buzzer Sound List" and "9.3 LED Status List".

- ③ Start downloading
 - Click the "DownLoad" button.
 - The progress bar will show the downloading progress status.
 - Click "Cancel" to cancel downloading in midstream.

DownLoad	
D'OWNLOad	1

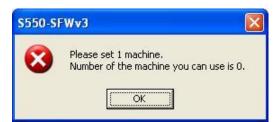
*If the firmware of the S550-SFWv3 is not the latest version, the confirmation dialog asking, "Would you like to update firmware?" appears. Click the "OK" button to update. If the firmware is not updated, downloading will not be proceeded. Note that when the firmware is updated, the data in S550-SFWv3 main unit will be initialized automatically.

S550-SFWv3	
Would you like to upd	ate firmware?
OK Car	ncel
Initialize	
Initialize	
Cancel	

*If the data in the S550-SFWv3 main unit and the data in the control software are identical, downloading will not be processed with the message "It is not necessary to download." (When the control software is closed once, the data will be downloaded even if it is identical to the one in the main unit.)



*If S550-SFWv3 is note connected, downloading will not be processed with the message "Please set 1 machine. Number of the machine you can is 0".



- (4) Downloading complete
- Downloading is complete when the execution screen appears.

🚆 default. prj -	\$550-SFWv3 Ver.4.00		
<u>S</u> top <u>C</u> ounter Clear	r <u>H</u> elp		
┌─ Information ───			
Maker:	Renesas		
MCU :	M16C/60		
Type :	M30626FHPFP/GP		
ROM Size :	384Kbyte+4Kbyte	– Pass/Fail Counter –	
Action Mode :	Erase/Program/Verify	Pass: 0	Start
Check Sum :	6B12 (User: 0C39, Data: 5ED9)	Fail: 0	
Result Pass	s Fail No Action	No SFWv3	Detail View

- **(5)** Start programming
- Click the "Start" button to start programming.
- The dialog will show the programming progress status.
- Click "Cancel" to cancel programming in midstream.

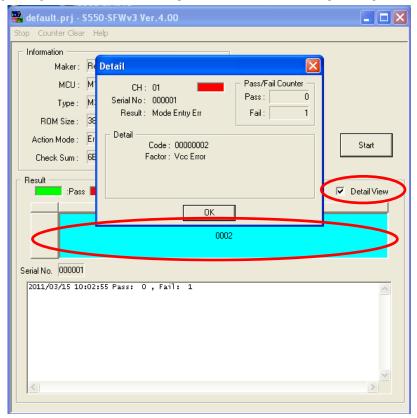
🚟 default.prj - S550-SFWv3 Ver.4.00	
Stop Counter Clear Help	
Information Maker : Renesas MCU : M16C/60 Type : M30626FHPFP/GP ROM Size : 384Kbyte+4Kbyte Action Mode : Erase/Program/Verify Check Sum : 6812 (User: 0C39, Data: 5ED9) Result Pass Fail No Action	Pass/Fail Counter Pass: 0 Fail: 0 :No SFWv3 V Detail View
Serial No. 000001 Erase Cancel	
<	

- Programming complete
 When the "Result" area is yellow-green, programming is complete. When the area is in red, error occurred in programming.

🚆 default.prj - S550-SFWv3 Ver.4.00	
<u>S</u> top <u>C</u> ounter Clear <u>H</u> elp	
_ Information	
Maker: Renesas	
MCU : M16C/60	
Type : M30626FHPFP/GP	
ROM Size : 384Kbyte+4Kbyte	Pass/Fail Counter —
Action Mode : Erase/Program/Verify	Pass: 1 Start
Check Sum : 6812 (User: 0C39, Data: 5ED9)	Fail: 0
Result :Pass :Fail :No Action 1 Serial No. 000001 [2011/03/15 10:00:41 Pass: 1 , Fail: 0	
<	

⑦ Check execution result detail

Check the "Detail view" check box and click the "Result" area to see the execution result detail screen. *You can check the errors in this execution result detail screen (see "9.5 List of execution result on Center Display, Execution Screen and Execution Detail Screen") and S550-SFWv3 main unit LED indication (see "9.3 LED Status List"). *When "Action Mode" is "Read", the programming data read from target MCU is stored in S550-SFWv3. If you want to upload this programming data to the control software (UpLoad), back to Main Screen and operate the procedure of "7.1.2 Uploading".



7.1.2. Uploading

You can upload the programming data stored in S550-SFWv3 to the control software (UpLoad). The following procedures show how to upload.

- ① Connect your PC and S550-SFWv3 main unit
 - For the connection when uploading, see "4.1 Connection for Downloading / Uploading / Initializing"
- 2 Confirm S550-SFWv3 start up
 - For the LED and buzzer status at the startup, see "9.2 Buzzer Sound List" and "9.3 LED Status List". •
- 3 Enter Password
 - Click the "UpLoad" button. •
 - The Password input dialog appears. To upload, enter your password in the "Password" box and click the "OK" button, or to cancel, click the "Cancel" button.

*When the password is not set for downloading, this dialog does not appear. *When no character was input in the password setting dialog, click the "OK" button without entering a character in the box.

Password Input	
Password :	1
OK Cancel	

- (4) Start Uploading
 - The progress bar will show the uploading progress status.
 - Click "Cancel" to cancel uploading in midstream.

Thetand	
UpLoad	

*If the firmware version of the S550-SFWv3 is different, uploading will not be processed with the message "Firmware Version is different".

Wv3 🛛
Firmware Version is different.

*If the password you enter and the password set for the S550-SFWv3 do not match, uploading will not be processed with the message "UpLoad password error".

\$550-SI	FWv3 🛛 🔀
8	UpLoad password error.
	OK]

*If there is no programming data downloaded to S550-SFWv3, uploading will not be processed with the message "There is no data".



(5) Uploading complete

· When the dialog "UpLoad Complete" appears, uploading is complete.

\$550-SI	Wv3 🛛 🕅
(j)	UpLoad complete.
	ОК

*When you upload the programming data read from target MCU, "** Read Data **" is displayed at "Program Files" on Main Screen or Device Setting Screen.

(Multi Data Mode)

- e.g.) Uploading 4th data stored in S550-SFWv3 to the 3rd data
- (i) Select uploading destination data number (1 through 4). Click the "UpLoad" button. *Entering a password is required when the password is set.

	default.prj - S550-SFWv3 Ver.4.00	
Pro	oject <u>H</u> elp	
	Information	
	No. Maker MCU Type Action Mode	Rom
	1 2	
	3 4	
		>
	- Setting]
	Target Project Delete Copy Maintenance	
	Action	
	Initialize UpLoad DownLoad Program	Exit
1		

(ii) The data stored in S550-SFWv3 main unit is shown.

Select the data to upload. Click the "OK" button to execute uploading, or click the "Cancel" button to cancel the procedure.

	defa	ult.prj - S	\$550-SFW	v3 Ver.4.00		
Pro	ject	Help				
Г	Infor	mation				
	UpLo	ad Multi	Data Setti	ng		
	No.	Maker	MCU	Туре	Action Mode	Rom
	1 2 3	Renesas	M16C/60 R32C/100 M16C/60	M30626FHPFP/GP R5F64179DFB/PFB R5F3651TNFC/DFC	Erase/Program/Verify Verify Blank/Program/Verify	m16c) R32C M16C)
	4	Renesas	R8C/3×	R5F21354ADFP/NFP	Erase/Blank/Program/Ver	ify R8C3
				ОК	Cancel	
	Actic	n nitialize	UpLoa	d DownLoad	Program	Exit

(iii) The selected data will be uploaded.

	default. j	orj - S	550-SFWv	3 Ver	.4.00				
Proj	ject <u>H</u> elp								
Г	Informatio	n —							
	No. Ma	ıker	MCU	Type		Action M	lode		Rom
	1 2								
	3 Re	nesas	R8C/3x	R5F21	L354ADFP/NFP	Erase/Bl	ank/Progra	am/Verify	R8CE
	4								
	<								>
	Setting -								
	Target Pr	roject	Delete		Сору	Mainte	enance		
	Action — Initiali	ze	UpLoad	j	DownLoad	Pro	gram	Ex	it

7.1.3. Initialization

You can initialize data that is stored in the S550-SFWv3 internal memory on unit basis for security purposes. The followings are the procedures for initialization.

*For initialized settings (factory settings), see "9.6 Initialized Settings (factory setting) List".

*Initialization takes 1 to 2 minutes.

- ① Connect PC and S550-SFWv3 main unit with USB.
- For the connection when initializing, see "4.1 Connection for Downloading / Uploading / Initializing".
- 2 Confirm S550-SFWv3 start up
- The start up is complete when the "USB" LED is lit after, "Power" LED on, "Pass", "ID Err", "Fail" LEDs are lit in order one time each then the buzzer sounds.

*If the "Pass" and "ID Err" LEDs are lit and the lower 1byte of the user program checksum is displayed on the center display after the buzzer sound, the programming data has been downloaded to the S550-SFWv3.

- ③ Start Initializing
- Click the "Initialize" button and the confirmation dialog asking, **"Do you want to initialize?"** Click the "OK" button to start initializing.



• The progress bar will show the initializing progress status. Click "Cancel" to cancel initializing in midstream.

- *If cancelled, data to program is deleted partially, and programming and uploading cannot be executed.
- All LEDs turns off and center display turns off when initialization is started.



*If the firmware version of the S550-SFWv3 is different, initializing will not be processed with the message "Firmware Version is different".



- (4) Initializing complete
- When a message "Initialize Complete" appears, initializing is complete.
- "," " is displayed on the center display when initializing is complete.

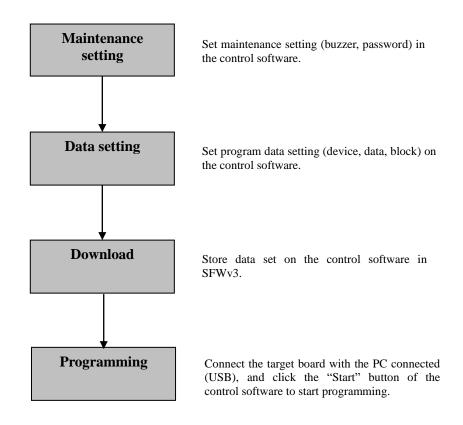


7.2. Multi CH Mode

7.2.1. Remote Programming

7.2.1.1. Process Flow up to Programming

The following section describes the operations from setting the programming data on the control software to actually programming the target.



7.2.1.2. Maintenance Settings

With the control software, you can change S550-SFWv3 main unit setting. The following illustrates an example of the maintenance setting.

- 1 Go to the maintenance setting screen
- Click the "Maintenance" button and move to the maintenance screen.

🚟 default.prj - S550-SFWv3 Ver.4.00	
Project Help	
Information	
Maker:	
MCU :	
Туре:	
ROM Size :	
Action Mode :	
Program File :	
Check Sum :	
Setting Target Project Maintenance	
Action Initialize UpLoad DownLoad Program	Exit

- 2 Select Multi CH Mode
- Check the "Enable Multi CH Mode" check box to set the "Multi CH Mode".
- It is possible to Initialize/Upload/Download/Program by using maximum of ten S550-SFWv3 at the same time. But "Multi Data Mode" and "Multi CH Mode" cannot be set at the same time. Moreover, it cannot be used for programmed when "Multi CH Mode" and "FA Mode" are all set.

Maintenance 🛛
Initial Setting Logging View Initial Setting Directory Setting Ena Save Directory
Action Log : Image: C:\Program Files\S550.SFW/v3\ Image: C:\Program Files\S550.SFW/v3\ Project File: Image: C:\Program Files\S550.SFW/v3\ Image: C:\Program Files\S550.SFW/v3\
Hardware Setting Buzzer Password F Enable Password Change
Action Setting Image: Constraint of the setting state of the setting s
Multi Data Setting FA Setting Enable Multi Data Mode Enable FA Mode
Multi CH Setting
OK Cancel

3 Other Settings

- Please see "7.1.1.2 Maintenance Settings" for other settings.

7.2.1.3. Data Settings

Please see "7.1.1.3 Data Settings" for other settings.

7.2.1.4. Remote Programming

The following procedures show how to program the programming data stored in S550-SFWv3 to the target (Program).

- ① Connect PC, S550-SFWv3 main unit and the target board
 - Connect PC and S550-SFWv3 with USB, and S550-SFWv3 and the target board with the target connecting cable.

*For connection in remote programming mode, see "Connection for Remote Programming".

- 2 Confirm S550-SFWv3 start up
 - For the LED and buzzer status at the startup, see "9.2 Buzzer Sound List" and "9.3 LED Status List".

③ Start downloading

- Click the "Program" button.
- Select channels and click "OK" button.
 - * In the "DownLoad" list, the item of "o" means that the channel is downloaded completely, and the item of "x" means that the channel is not yet downloaded.

Program Se	tting		
S550-SFW	v3 Connecting S/N 000001	DownLoad	All Check
🔽 CH 02	004098	×	All Uncheck
💌 СН 03	008195	0	
💌 CH 04	012292	×	
🔽 CH 05	016389	×	
🔽 CH 06	020486	0	
🔽 CH 07	024583	X	
🔽 CH 08	028680	X	
🔽 CH 09	032777	0	
💌 CH 10	036874	X	
-	OK] Cancel	

- The progress bar will show the downloading progress status.
- · Click "Cancel" to cancel downloading in midstream.

	DownLoad
	DownLoad
Cancel	

*If the firmware of the S550-SFWv3 is not the latest version, the confirmation dialog asking, "Would you like to update firmware?" appears. Click the "OK" button to update. If the firmware is not updated, downloading will not be proceeded. Note that when the firmware is updated, the data in S550-SFWv3 main unit will be initialized automatically.

S550-SFWv3	
😲 Would you like	to update firmware?
OK	Cancel
Initialize	
Initiali	

*If the data in the S550-SFWv3 main unit and the data in the control software are identical, downloading will not be processed with the message "It is not necessary to download." (When the control software is closed once, the data will be downloaded even if it is identical to the one in the main unit.)

S550-SF	Wv3 🛛 🔀
į)	It is not necessary to download.

*If S550-SFWv3 is note connected, downloading will not be processed with the message "Please set 1 machine. Number of the machine you can is 0".



(4) Downloading complete

• Downloading is complete when the execution screen appears.

👪 default.prj -	\$550-SF\	Vv3 Ver	.4.00						
<u>S</u> top <u>C</u> ounter Clea	r <u>H</u> elp								
┌─ Information ───									
Maker:	Renesas								
MCU :	M16C/60							_	
Type :	M30626FF	HPFP/GP						M	ulti PG
ROM Size :	384Kbyte-	+4Kbyte			P	ass/Fail C	ounter —		
Action Mode :	Erase/Pro	gram/Veril	fy		P	ass:	0	ſ	Start
Check Sum :	6B12 (Use	er: OC39, D	ata: 5EDS	3)		Fail:	0	<u> </u>	
Result	8	:Fail	:No A	Action 🕅	:No	SFWv3			Detail View
	2	3	4	5	6	7	8	9	10
Serial No. 000001	004098	008195	012292	016389	020486	024583	028680	032777	036874
									2
<									

- **(5)** Start programming
- Click the "Start" button to start programming.
- The dialog will show the programming progress status.
- Click "Cancel" to cancel programming in midstream.

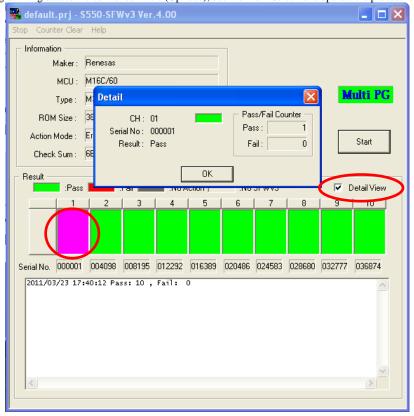
🔛 default.prj - S550-SF	Wv3 Ver.4.00				
Stop Counter Clear Help					
Information					
Maker: Renesas					
MCU : M16C/60)			_	
Туре : М30626Р	HPFP/GP			M	lulti PG
ROM Size : 384Kbyte	+4Kbyte	- Pass/Fail C	ounter —		
Action Mode : Erase/Pr	ogram/Verify	Pass:	0		Start
Check Sum : 6B12 (Us	er: 0C39, Data: 5ED9)	Fail:	0		
Result 1 2 Serial No. 000001 004098	:Fail :No Action 3 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	:No SFWv3 6 7	028680	9 9 032777	Detail View 10 036874
<					>

- Programming complete
 When the "Result" area is yellow-green, programming is complete. When the area is in red, error occurred in programming.

🎇 default.prj - S550-SFWv3 Ver.4.00	
Stop Counter Clear Help	
_ Information	
Maker: Renesas	
MCU: M16C/60	
Type : M30626FHPFP/GP	Multi PG
ROM Size : 384Kbyte+4Kbyte	- Pass/Fail Counter
Action Mode : Erase/Program/Verify	Pass: 10 Start
Check Sum : 6B12 (User: 0C39, Data: 5ED9)	Fail: 0
Result :Pass :Fail :No Action 1 2 3 4 5 5 erial No. 000001 004056 006105 012292 015389 2011/03/15 10:13:48 Pass: 10 , Fail: 0	:No SFWv3 □ 6 7 8 9 10 0 7 8 9 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

⑦ Check execution result detail

Check the "Detail view" check box and click the "Result" area to see the execution result detail screen. *You can check the errors in this execution result detail screen (see "9.5 List of execution result on Center Display, Execution Screen and Execution Detail Screen") and S550-SFWv3 main unit LED indication (see "9.3 LED Status List"). *When "Action Mode" is "Read", the programming data read from target MCU is stored in S550-SFWv3. If you want to upload this programming data to the control software (UpLoad), back to Main Screen and operate the procedure of "7.2.2 Uploading".



7.2.2. Uploading

You can upload the programming data stored in S550-SFWv3 to the control software (UpLoad). The following procedures show how to upload.

- ① Connect your PC and S550-SFWv3 main unit
 - · For the connection when uploading, see "4.1 Connection for Downloading / Uploading / Initializing"
- 2 Confirm S550-SFWv3 start up
 - For the LED and buzzer status at the startup, see "9.2 Buzzer Sound List" and "9.3 LED Status List".
- 3 Enter Password
 - Click the "UpLoad" button.
 - The "UpLoad Setting" dialog is displayed. The channel which was not set password when downloading is effective, and the channel set password is invalid. Input password to the "UpLoad Password" text box and click the "Password Check" button, the channel for which password is suitable will become effective. Select channels and click "OK" button.

UpLoad Set	ting	
S550-SFW	v3 Connecting - S/N	UpLoad Password
CH 01	000001	
C CH 02	004098	
C CH 03	008195	Password Check
C CH 04	012292	
C CH 05	016389	
C CH 06	020486	
C CH 07	024583	
C CH 08	028680	
C CH 09	032777	
C CH 10	036874	
	ок	Cancel

- (4) Start Uploading
 - The progress bar will show the uploading progress status.
 - Click "Cancel" to cancel uploading in midstream.

		e e comuna	TEL
		lpLoad	UpLoa
	Car		

*If the firmware version of the S550-SFWv3 is different, uploading will not be processed with the message "Firmware Version is different".

\$550-S	FWv3
8	Firmware Version is different.
	ОК

*If the password you enter and the password set for the S550-SFWv3 do not match, uploading will not be processed with the message "UpLoad password error".

\$550-SI	FWv3 🛛 🔀
8	UpLoad password error.
	OK]

*If there is no programming data downloaded to S550-SFWv3, uploading will not be processed with the message "There is no data".



(5) Uploading complete

· When the dialog "UpLoad Complete" appears, uploading is complete.

\$550-SI	FWv3 🛛 🛛	
(į)	UpLoad complete.	
[ОК	

*When you upload the programming data read from target MCU, "** Read Data **" is displayed at "Program Files" on Main Screen or Device Setting Screen.

7.2.3. Initialization

You can initialize data that is stored in the S550-SFWv3 internal memory on unit basis for security purposes. The followings are the procedures for initialization.

*For initialized settings (factory settings), see "9.6 Initialized Settings (factory setting) List".

*Initialization takes 1 to 2 minutes.

- ① Connect PC and S550-SFWv3 main unit with USB.
- For the connection when initializing, see "4.1 Connection for Downloading / Uploading / Initializing".
- 2 Confirm S550-SFWv3 start up
- The start up is complete when the "USB" LED is lit after, "Power" LED on, "Pass", "ID Err", "Fail" LEDs are lit in order one time each then the buzzer sounds.

*If the "Pass" and "ID Err" LEDs are lit and the lower 1byte of the user program checksum is displayed on the center display after the buzzer sound, the programming data has been downloaded to the S550-SFWv3.

- ③ Select initialized channel
- Click the "Initialize" button.
- The "Initialize Setting" dialog is displayed. Select channels and click "OK" button.

J	Initialize Setting							
	- \$550)-SFWv	3 Connecting S/N					
	I C	H 01	000001			All Check		
	I C	H 02	004098			All Uncheck		
	I 0	H 03	008195					
	I C	H 04	012292					
	I 0	H 05	016389					
	I 0	H 06	020486					
	I C	H 07	024583					
	I 0	H 08	028680					
	I 0	H 09	032777					
	💌 C	H 10	036874					
			OK]	Cancel			

- (4) Start Initializing
- Click the "Initialize" button and the confirmation dialog asking, **"Do you want to initialize?"** Click the "OK" button to start initializing.



- The progress bar will show the initializing progress status. Click "Cancel" to cancel initializing in midstream. *If cancelled, data to program is deleted partially, and programming and uploading cannot be executed.
- All LEDs turns off and center display turns off when initialization is started.



*If the firmware version of the S550-SFWv3 is different, initializing will not be processed with the message "Firmware Version is different".

\$550-SFWv3			
8	Firmware Version is different.		
	(OK)		

- (5) Initializing complete
- When a message "Initialize Complete" appears, initializing is complete.
- "_","_" is displayed on the center display when initializing is complete.



8. Stand-alone Mode

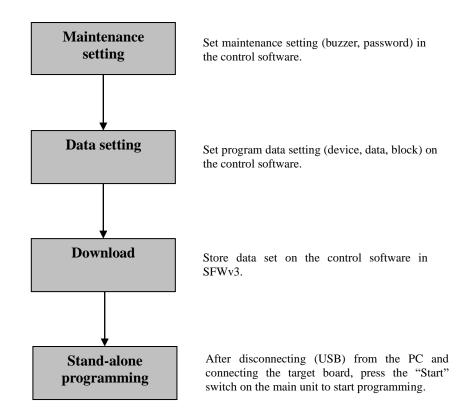
8.1. Stand-alone Programming

8.1.1. Process Flow up to Programming

The following section describes the operations from setting the programming data on the control software to actually programming the target.

There are two ways of programming for you to choose from according to your operating environment:

- Stand-alone programming (Directly programming the target by S550-SFWv3)
- Remote programming (Programming the target from the control software via S550-SFWv3)



8.1.2. Downloading

You can store the data set with the control software in the S550-SFWv3 main unit (Download). The following procedure shows how to download.

- ① Connect your PC and S550-SFWv3 main unit
 - For the connection when downloading, see "4.1 Connection for Downloading / Uploading / Initializing".
- 2 Confirm S550-SFWv3 start up
 - For the LED and buzzer status at the startup, see "9.2 Buzzer Sound List" and "9.3 LED Status List".

③ Start Downloading

- Click the "DownLoad" button.
- The progress bar will show the downloading progress status.
- Click "Cancel" to cancel downloading in midstream. *Download again before programming if you cancel the procedure.

DownLoad	

*If the firmware of the S550-SFWv3 is not the latest version, the confirmation dialog asking, "Would you like to update firmware?" appears. Click the "OK" button to update. If the firmware is not updated, downloading will not be proceeded. Note that when the firmware is updated, the data in S550-SFWv3 main unit will be initialized automatically.

S550-SFWv3	
Would you like to upd	ate firmware?
OK Car	ncel
Initialize	
Initialize	
Cancel	

*If the data in the S550-SFWv3 main unit and the data in the control software are identical, downloading will not be processed with the message "**It is not necessary to download.**" (When the control software is closed once, the data will be downloaded even if it is identical to the one in the main unit.)



*If S550-SFWv3 is note connected, downloading will not be processed with the message "Please set 1 machine. Number of the machine you can is 0".



- (4) Complete Downloading
 - When the dialog "DownLoad Complete" appears, downloading is complete.
 - In "Multi Data Mode", the data with the smallest data number will be selected for the S550-SFWv3.



8.1.3. Programming

1 Download

Download programming data to S550-SFWv3.

*The programming data shall be downloaded to the main unit for stand-alone programming. (For downloading, see "8.1.2 Downloading".)

- 2 Connect the S550-SFWv3 main unit and target board
 - Connect S550-SFWv3 and the target board with the target connecting cable. *For connection in stand-alone mode, see "4.2 Connection for Stand-alone Programming / Stand-alone Initializing".
- 3 Power ON
 - Turn on the target board.
- (4) Confirm S550-SFWv3 start up
 - For the LED and buzzer status at the startup, see "9.2 Buzzer Sound List" and "9.3 LED Status List".
- **(5)** Start programming
 - Press the "START" switch and the programming will start.
- 6 Programming complete
 - Execution result will be output with the LED and buzzer.
 - (See "9.2 Buzzer Sound List" and "9.3 LED Status List")
 - · Check the execution detail result with the error information display on the center display.
 - (See "8.3.5 Error Information Display")

*When "Action Mode" is "Read", the programming data read from target MCU is stored in S550-SFWv3. You may upload this programming data to the control software (UpLoad) on Remote Mode. If you want to do so, operate the procedure of "7.1.2 Uploading" (or "7.2.2 Uploading").

- 7 Power OFF
 - Turn off the target board and disconnect the S550-SFWv3 and the target board.

To continue programming the same data, repeat the procedures 2 through 6 again.

8.2. Stand-alone Initialization

You can initialize data that is stored in the S550-SFWv3 internal memory on unit basis for security purposes. The followings are the procedures for initialization.

*For initialized settings (factory settings), see "9.6 Initialized Settings (factory setting) List".

*Initialization takes 1 to 2 minutes.

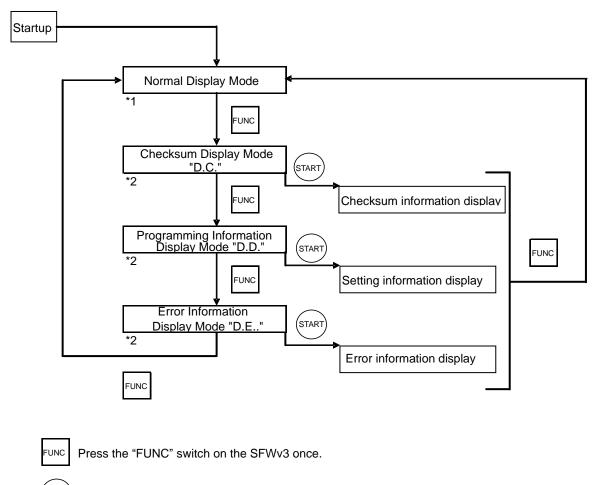
- 1 Connect the S550-SFWv3 main unit and target board
- Connect S550-SFWv3 and the target board with the target connecting cable.
 *For connection in stand-alone mode, see "4.2 Connection for Stand-alone Programming / Stand-alone Initializing".
- 2 Power ON
- Turn on the target board.
- ③ Confirm S550-SFWv3 start up
- For the buzzer and LED status at the startup, see "9.2 Buzzer Sound List" and "9.3 LED Status List".
- (4) Start Initializing
- Press the "START" switch and hold it for 5 seconds to start initializing.
- When initialization is started, all LEDs will be turned off, center display will be off and a series of short beeps ("pip, pip, pip, pip...) sounds.
- (5) Initializing complete
- After a beep "peep" sounds once, "_","_" is displayed on the center display when initializing is complete.

8.3. Center Display Modes

8.3.1. Mode Transition Diagram

Following illustrates mode transitions of S550-SFWv3 center display.

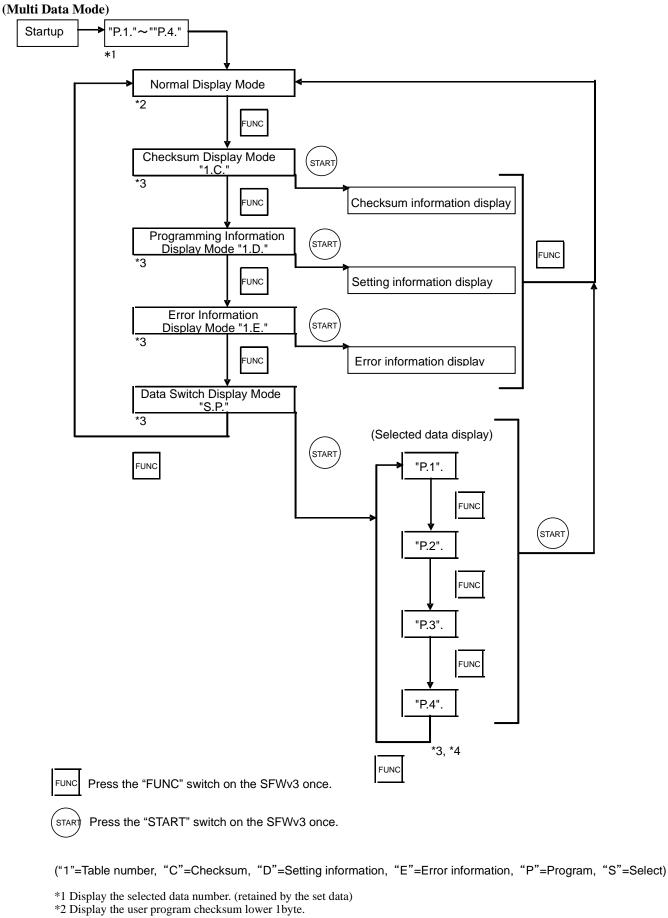
(Single Data Mode)



(START) Press the "START" switch on the SFWv3 once.

("D"(Left)=Display, "C"=Checksum, "D"(Right)=Setting information, "E"=Error information)

- *1 Display the user program checksum lower 1byte.
- *2 Move to normal display mode after 3 seconds.



- *3 Move to normal display mode after 3 seconds.
- *4 Show the set data only.

8.3.2. Normal Display Mode

This is the screen when power is turned on. The S550-SFWv3 displays the checksum lower 1 byte of the data stored in the internal memory of the main unit on the center display.

*The user's program checksum is the data summed up by every byte. The addresses not included in the user's program are calculated as FFh. *When there is no data downloaded to the internal memory, "_," is displayed and the programming to the target board cannot be executed.

8.3.3. Checksum Display Mode

The S550-SFWv3 displays the checksum lower 2 byte of the data stored in the internal memory of the main unit on the center display. Following shows how to see the information.

*When there is no data downloaded to the internal memory, the display does not change to "**Checksum Display Mode**". Also, when the S550-SFWv3 main unit is in energy saving mode, the display does not change to "**Checksum Display Mode**".

① Move to "Checksum Display Mode"

• When center display is in the "Normal Display Mode", press the "FUNC" switch on S550-SFWv3 once, and "D", "C" appear on the center display.

2 Display checksum

After "D.", "C." are displayed on the center display, press the "START" switch on S550-SFWv3 once, and the checksum is displayed.

*"When there is no operation for 3 seconds after "D.","C." are displayed, the center display goes back to the "Normal Display Mode".
•The checksum is automatically scrolled.

3 Exit "Checksum Display Mode"

• Press the "FUNC" switch on S550-SFWv3 once to go back to the "Normal Display Mode".

(Multi Data Mode)

"Checksum Display Mode" shows "1.","C." through "4.","C." on the center display.

8.3.4. Programming Information Display

The S550-SFWv3 displays the programming information of the data stored in the internal memory of the main unit on the center display. Following shows how to see the information.

*When there is no data downloaded to the internal memory, the display does not change to "**Programming Information Display Mode**". Also, when the S550-SFWv3 main unit is in energy saving mode, the display does not change to "**Programming Information Display Mode**".

(1) Move to "Programming Information Display Mode"

• When center display is in the "Checksum Display Mode", press the "FUNC" switch on S550-SFWv3 once, and "D.", "D." appear on the center display.

2 Show programming information

After "**D**.", "**D**." are displayed on the center display, press the "START" switch on S550-SFWv3 once, and the MCU, TYPE, and Action Mode are displayed.

*"When there is no operation for 3 seconds after **D.**,","**D.**" are displayed, the center display goes back to the "**Normal Display Mode**". •The checksum is automatically scrolled.

③ Exit "**Programming Information Display Mode**"

• Press the "FUNC" switch on S550-SFWv3 once to go back to the "Normal Display Mode".

(Multi Data Mode)

"Programming Information Display Mode" shows "1.","D." through "4.","D." on the center display.

8.3.5. Error Information Display

The S550-SFWv3 displays the previous programming error information on the center display. Following shows how to see the information.

*When there is no data downloaded to the internal memory, the display does not change to "**Error Information Display Mode**". Also, when the S550-SFWv3 main unit is in energy saving mode, the display does not change to "**Error Information Display Mode**".

(1) Move to "Error Information Display Mode"

• When center display is in the "**Programming Information Display Mode**", press the "FUNC" switch on S550-SFWv3 once, and "**D**."," **E**." appear on the center display.

② Shows error information

• Within 3 seconds after "D.", "E." are displayed on the center display, press the "START" switch on S550-SFWv3 once, and the error information is displayed.

*When there is no operation for 3 seconds after "**D**.", "**E**." are displayed, the center display goes back to the default screen. *For details of error information, check the error information details (See "9.5 List of execution result on Center Display, Execution Screen and Execution Detail Screen")

③ Exit "Error Information Display Mode"

• Press the "FUNC" switch on S550-SFWv3 once to go back to the default screen.

(Multi Data Mode)

"Error Information Display Mode" shows "1.","E." through "4.","E." on the center display.

8.3.6. Data Switch Display

With the "Multi Data Mode", you can select programming data on S550-SFWv3. Following shows how to select the data.

*When there is no data downloaded to the internal memory, the display does not change to "**Data Switch Display Mode**". Also, when the S550-SFWv3 main unit is in energy saving mode, the display does not change to "**Data Switch Display Mode**"

1 Move to "Data Switch Display Mode"

• When center display is in the "Error Information Display Mode", press the "FUNC" switch on S550-SFWv3 once, and "S."," P." appear on the center display. Within 3 seconds after "S.","P." are displayed on the center display, press the "START" switch on S550-SFWv3 once, then you can select data.

2 Switch data

Press the "FUNC" switch on S550-SFWv3 and "P","1." Through "P","4." appear, you can switch data.
 * Selected data is displayed initially.
 *When there is no operation for 3 seconds after "P","1." through "P","4." are displayed, the center display goes back to the default screen.

3 Exit "Data Switch Display Mode"

- Press the "START" switch on S550-SFWv3 once to select the data and go back to the default screen.
 - If there is no operation for 3 seconds, the data is not selected and the screen goes back to the default screen. * When a data is selected, buzzer sounds.

9. Messages and Warnings

9.1. Message Dialogs

Display	Contents
S550-SFWv3 already started.	Displayed when trying to start up the control software while
~	The control software has been started already.
There is not enough space to start S550-SFWv3.	Displayed when the free disk space is less than 1M byte while
	trying to start up the control software.
Do you really want to exit?	Displayed while trying to exit from the control software.
Do you really want to exit?(discard your	Displayed when the settings have not been saved while trying to
settings)	exit from the control software.
Users Manual open error.	Displayed when the manual cannot be opened.
Users Manual not found.	Displayed when the manual does not exist.
Device definition file 'xxx' not found.	Displayed when the device definition file does not exist.
Device definition file 'xxx' open error.	Displayed when the device definition file cannot be opened.
Device definition file 'xxx' format error.	Displayed when the device definition file format is invalid.
This file includes data addressing non-ROM	Displayed while trying to load a program file that contains data
area of the selected device. Does it continue	in the data area when the target device does not have any data
as it is?	area.
Please click "Set ID" button for setting "Check	Displayed when you select TXZ3 series and load a program file.
ID Code".	You have to set "Check ID Code" manually for this device.
ROM file open error.	Displayed when the program file could not be loaded.
ROM file format error.	Displayed when the program file format is invalid.
System memory error.	Displayed when the temporary memory used during loading the program file could not be ensured.
ROM file invalid address contained error.	Displayed when a program file that contains an invalid address data is loaded.
ROM file write error.	Displayed when a programming error occurred while saving the loaded program data to a file.
Project file 'xxx' not found.	Displayed when the project file could not be loaded.
Device definition file 'xxx' format error.	Displayed when the project file format is invalid.
Device selected not found. Do you want to make new project?	Displayed when the project file does not exist or the device in the project file does not exist in the device definition file while starting up the control software.
Do you want to initialize?	Displayed when initializing device setting information.
Would you like to update firmware?	Displayed when the firmware needs to be updated.
System memory error.	Displayed when the required memory could not be obtained.
Please input hex value.	Displayed when a value other than hexadecimal value is entered while a hexadecimal value is required for the item.
Invalid address contained error.	Displayed when specifying an address other than valid ROM
Please address value in the range of blocks.	area for the set device.
Invalid address range error.	Displayed when specified end address value is smaller than the value of the start address.
Please set end address value that is larger than start address	
start address. Do you want to replace modified file?	Confirmation whether to validate the edited contents or not.

Display	Contents
Do you want to move main view?(discard your	Confirmation whether to discard the settings and go back to the
settings)	main screen.
Some Maintenance setting items has been	Confirmation whether to validate the edited contents or not.
edited.	
Do you want to replace the existing items?	
Data can't find.	Displayed when data to be searched does not exist.
Invalid log save directory.	Displayed when the directory for the log specified in the
I	maintenance screen does not exist.
Invalid new password.	Displayed when invalid password has been entered.
Do you really want to clear counters? Invalid range error.	Displayed when clearing the input results. Displayed when the value out of range has been set for the
invand range error.	clock frequency.
Please set %d machine.	Displayed when the communication between the GUI and the
Number of the machine you can use is %d.	firmware has failed.
Firmware file 'xxx' not found.	Displayed when the downloadable firmware is not available
	while auto-downloading the firmware in trying to match the
	versions of the control software and the firmware.
Firmware file 'xxx' format error.	Displayed when the file format of the mot file for the firmware
	is invalid.
Firmware Version is different.	Displayed when the firmware of the required version does not
	exist while auto-downloading the firmware in trying to match
<u> </u>	the version of the GUI and the firmware.
Communication error.	Displayed when the communication between the GUI and the
<u></u>	firmware has failed.
CRC error.	Displayed when CRC error occurs during the communication
Managemen	between the control software and the firmware.
Memory error.	Displayed when the firmware internal memory has been damaged.
UpLoad password error.	Displayed when the password for uploading does not match.
MCU disagreement error.	Displayed when invalid data information is contained while
web disagreement erfor.	uploading.
There is no data.	Displayed when there is no data on S550-SFWv3 while
	uploading.
There is not enough space in the selected	Displayed when there is not enough hard disk space while
directory to write an action log.	saving a log file.
There is the same name action log file. Rename	Displayed when overwriting the log file.
or Overwrite?	
YesRename	
NoOverwrite	
Could not save the action log file. Retry or	Displayed when saving the log file has been failed
Rename?	
YesRetry NoRename	
Communication Err. Stop(OK/CANCEL)?	Displayed when the communication between the GUI and the
Communication En. Stop(OK/CAIVCEL)?	firmware has failed.
No device Err.	Displayed when there is a spot with no device during the first
Program Stop(OK/CANCEL)?	device check by the firmware.
It is not necessary to download.	Displayed when settings do not need to be downloaded.
Initialize complete.	Displayed when initialization has been complete.
DownLoad complete.	Displayed when downloading has been complete.
UpLoad complete.	Displayed when uploading has been complete.
DownLoad	Displayed while downloading.
Download stop?	Confirmation to cancel downloading.
Update	Displayed while updating.
Update stop?	Confirmation to cancel firmware updating.
UpLoad	Displayed while uploading.
Upload stop?	Confirmation to cancel uploading.
Action Start	Displayed when programming has been started.
Action stop?	Confirmation to cancel programming.
Initialize stop?	Confirmation to cancel initialization.

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Display	Contents
Initialize Start	Displayed when initialization has been started.
Initialize	Displayed while initializing.
Finish	Displayed when programming has been complete.
Initialize Stop	Displayed when initialization has been canceled.
There is no machine. Please move to main view.	There is no machine to communicate at the "Execution Screen".
It does not download ROM data in this action mode.	Click "Set" button When loading program file and select "Erase/Blank"," Blank" or "Chip Erase" mode.
The data in the flash memory will be erased when ID Code Protect is not set. Does it continue as it is?	Displayed when the following device is selected. • There is a security specification that the flash memory is automatically erased. • ID Code Protect is not set.
The written data in the flash memory will be erased when ID Code Protect is not set. Does it continue as it is?	Displayed when the following device is selected. • There is a security specification that the flash memory is automatically erased. • ID Code Protect is not set. • Only a part of blocks are selected.
The written data in the flash memory will be erased. Does it continue as it is?	Displayed when the following device is selected. • There is a security specification that the flash memory is automatically erased. • Only a part of blocks are selected.
When 'Flash Option' is disable, all of the flash option settings are not functioned.	Displayed when 'Flash Option' is disable.
When 'Chip Erase' is disable, chip cannot be erased and programmed any more.	Displayed when 'Chip Erase' is disable.
If 'Disable Block Erase' is specified and a security command is executed, the Security Release command cannot be executed and the target security setting cannot be cleared again.	Displayed when 'Block Erase' is disable and RL78 Family is selected.
When 'Boot Block Cluster Programming' is disable, boot block cannot be erased and programmed any more.	Displayed when 'Boot Block Cluster Programming' is disable.
The baudrate of the opened project file is not correct. Do you want to change it into a default value?	Displayed when the baudrate of the opened project file is not correct.
The baudrate of the selected project file is not correct. Do you want to change it into a default value?	Displayed when the baudrate of the selected project file is not correct.

9.2. Buzzer Sound List

Operation	Condition	Buzzer
Power ON	Settings made by PC	After LED process, "Pip"
Programming	Stand-alone	"Pip"
	Programming operation	
	PASS	"Pee"
	ID error	"Pipee"
	Mode entry error	"Pipee"
	Internal memory is damaged	"Pipipee"
	Other programming error	"Pipee"
Initializing main unit	Stand-alone	"Pip, Pip, Pip, Pip,"
memory	Initializing main unit memory	
	Stand-alone	"Pee"
	On completing main unit	
	memory initialization	

9.3. LED Status List

Operation	Condition	LED Status					
-		POWER	USB	PASS	ID ERR	FAIL	Center Display
Power ON	No settings mode by PC	•	•	-	-	-	"_","_"(unders core)
	Settings mode by PC	•	•	•	•	-	checksum lower 1 byte
	Internal memory is damaged	•	•	•	•	-	"М","Е"
Programming	Executing programming	•	0	0	-	-	-
	PASS	•	•	•	-	-	checksum lower 1 byte
	ID Error	•	•	-	•	-	checksum lower 1 byte
	Mode Entry Error	•	•	-	•	•	checksum lower 1 byte
	Internal memory is damaged	•	•	•	•	•	"М","Е"
	Other programming error	•	•	-	-	•	checksum lower 1 byte
Downloading	Executing main unit downloading	•	0	-	-	-	-
	Main unit downloading complete	•	•	•	•	-	checksum lower 1 byte
Main unit memory	Main unit memory initializing	•	0	0	-	0	-
initializing	Main unit memory initialization complete	•	•	-	-	-	(underscore)
Firmware	Firmware updating	•	-	-	-	-	-
updating	Main unit memory initializing	•	0	0	-	0	-
	Firmware updating complete	•	•	-	-	-	" " " " (underscore)
Others	Firmware Error	•	-	-	-	-	-
	Malfunction	-	-	-	-	-	-

•:Lighting, O:Blink, -:Extinction

*If the USB is not connected, USB LED does not light or blink. *When you select "Erase/Blank", "Blank", "Chip Erase" or "Read", Center Display shows "≡" instead of the checksum.

9.4. List of Center Display

0	1	2	3	4	5	6	7
	B						<u>BR</u>
8	9	А	В	С	D	Е	F
				NA.		N.	
G	Н	Ι	J	K	L	М	Ν
			影		R.	影	×.
0	Р	Q	R	S	Т	U	V
<u>W.</u>	R	R	R		2 8		B A
W	Х	Y	Z	period	hyphen	underscore	slash
×.		×.		密	WI M	。 第 第	B.
No Data							

*Letters and periods may be displayed at the same time. *When you select "Erase/Blank", "Blank ", "Chip Erase" or "Read", "No Data" is displayed.

Center	Execution	Execution Detail	Descriptions			
Display	Screen	Screen				
"0","0"	Gray	(None)	These are displayed after starting up S550-SFWv3, or when			
		_	programming is canceled.			
"0","1"	Yellow-Green	Pass	These are displayed when programming completed			
			successfully.			
"0","2"	Red	Mode Entry Err	These are displayed when mode entry before programming			
	(0002)		failed.			
			Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
"0","3"	Red	ID Err	These are displayed when checking security ID failed.			
	(0003)		Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
"0","4"	Red	Erase Err	These are displayed when erasing failed.			
	(0004)		Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
			- Erase method in "Erase Type"			
			- Erase block number in "Block No"			
"0","5"	Red	Program Err	These are displayed when programming failed.			
	(0005)		Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
			- Program execution address in "Address"			
"0","6"	Red	Verify Err	These are displayed when verifying failed.			
	(0006)		Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
			- Verify execution address in "Address"			
			- Expectation data in "Write Data"			
			- Actual data (read value) in "Read Data"			
"0","7"	Red	Blank Err	These are displayed when blank check failed.			
	(0007)		Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
"0","8"	Red	Protect Err	These are displayed when protection setting failed.			
	(0008)		Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
"0","9"	Red	Read Err	These are displayed when reading failed.			
	(0009)		Execution Detail Screen displays the following additional			
			information.			
			- Error factor in "Factor"			
			- Read execution address in "Address"			

9.5. List of execution result on Center Display, Execution Screen and Execution Detail Screen

* "Execution Screen" shows displayed color of operation result and error code (in parentheses). * "Execution Detail Screen" shows displayed string of operation result at "Result".

Items	Default status (Factory setting)
Programming data	Data set in the device setting screen is initialized. (See "6.2.1 Device
	Setting Screen".)
Buzzer sound Mute setting	Mute is not set.
	(See "6.3.1 Maintenance Initial Setting Screen".)
	*With buzzer sound.
Power saving mode	Normal mode is set.
setting	(See "6.3.1 Maintenance Initial Setting Screen".)
	*The center display turns on.
Password setting	Password is not set.
	(See "6.3.1 Maintenance Initial Setting Screen".)
	*Password is not required for uploading.

10. Troubleshooting

10.1. Mode entry error occurs when programming

Mode entry error shows "0", "2" on the Center Display, "0002" on the Execution Screen" or "Mode Entry Err" on the Execution Detail Screen.

Mode entry error occurs while preparing for programming. Following shows how to resolve.

① Check power voltage

Is the target board power voltage set in the device setting screen "Vcc" label setting value?

*Do not connect external power source if "3.3V" or "5V" is selected in "Vcc Type" list box.

In case the power is supplied from S550-SFWv3, does the consumption current of the target board exceed 200mA?

If exceeding 200mA, use an external power supply for the target board.

2 Check CPU oscillator

Is the frequency of the CPU in the range described in the hardware manual?

3 Check terminal status

Are the CNVSS, EPM terminal values set correctly?

(4) Check baudrate

Is the baudrate of the device on the target side in the range described in the hardware manual? *Try programming with the lower baudrate if the mode entry error is not resolved after ①, ②, and ③ operations.

10.2. Erase error occurs when programming

Erase error shows "0","4" on the Center Display, "0004" on the "Execution Screen" or "Erase Err" on the Execution Detail Screen.

Erase error occurs when the target ROM area cannot be erased. Following shows how to resolve.

① Check power voltage

Is the target board power voltage set in the device setting screen "Vcc" label setting value?

2 Check CPU oscillator

Is the frequency of the CPU in the range described in the hardware manual?

10.3. Program error occurs when programming

Program error shows "0", "5" on the Center Display, "0005" on the "Execution Screen" or "Program Err" on the Execution Detail Screen.

Program error occurs when data cannot be written in the ROM area of the device on the target side. Following shows how to resolve.

① Check power voltage

Is the target board power voltage set in the device setting screen "Vcc" label setting value?

2 Check CPU oscillator

Is the frequency of the CPU in the range described in the hardware manual?

10.4. Blank error occurs when programming

Blank error shows "0","7" on the Center Display, "0007" on the "Execution Screen" or "Blank Err" on the Execution Detail Screen.

Blank error refers to an error that occurs when the ROM area of the device on the target side is not initialized (0xFF).

10.5. Verify error occurs when programming

Verify error shows "0","6" on the Center Display, "0006" on the "Execution Screen" or "Verify Err" on the Execution Detail Screen.

Verify error refers to an error that occurs when the ROM area of the device on the target side does not match the written value.

10.6. Memory error occurs when programming

Memory error occurs when the S550-SFWv3 main unit ROM is damaged. Following shows how to resolve.

① Download

Download the programming data again.

2 Initialize and download

Click the "Initialize" button, or press and hold the S550-SFWv3 main unit "START" switch. Then download the programming data again.

10.7. Mode entry error occurs when programming R8C Family

Are you not using 14pin-10 pin connecting cable? For R8C Family, 14pin-10pin connecting cable cannot be used. Use 14pin-14pin connecting cable.

10.8. Nothing is displayed on the center display

Isn't it set to the power saving mode? In order to turn on the center display, remove the check in the "Enable Power Save Mode" box in the maintenance screen.

10.9. I only can select "Erase/Program/Verify" or "Verify" for the execution process.

Isn't it set in the normal mode? Check "Enable Expansion Action Mode" box in the maintenance screen in order to select either "Blank/Program/Verify", "Erase/Blank/Program/Verify", "Erase/Program", "Erase/Blank", "Blank", "Chip Erase" and "Read".

10.10. Forgot the password for uploading

If you lose your password, set a new password and download the data to program again.

10.11. I can't select the data when stand-alone programming in power saving mode.

With the power saving mode set, S550-SFWv3 main unit center display does not turn on, and "FUNC" switch is invalidated. Thus, only the data with the smallest data number can be programmed in stand-alone programming.

Version	Revised contents	Revised date				
Rev.A	First edition					
Rev.B	 Changes of the whole The description has been changed from the "R8C/Tiny series" to the "R8C family". The description has been changed from the "H8SX series" to the "H8SX family". The description has been changed from the "SH/Tiny series" to the "SuperH family". 2.2. Function Specifications The explanation of data mode has been changed. 2.7.2. 14pins – 10pins Connecting Cable (Applicable for M16C Family) Connector model's name has been corrected. 3.12. SH/Tiny7124, 7125 Group of circuitry examples The description has been changed from the "SH/Tiny7124, 7125 Group" to the "SH/Tiny Series". 3.13. SH7147, SH7280 Series of circuitry examples has been added. 3.14. H8SX/1622 Group of circuitry examples The description has been changed from the "H8SX/1622 Group" to the "H8SX/1600 	2010/07/21				
	 Series". It has been changed as not to connect the ELME terminal with S550-SFWv3. 3.15. RX600 Series It has been changed as not to connect the ELME terminal with S550-SFWv3. 6.1.1. Main Screen The explanation of mcu Type has been changed. The explanation of Check Sum has been changed. The explanation of Copy button has been added. 6.2.1. Device Setting Screen The explanation of Baudrate has been changed. Main Multiplier has been changed. PerMultiplier has been added. The explanation of Check Sum has been changed. Or the explanation of Baudrate has been changed. Main Multiplier has been added. The explanation of Check Sum has been changed. PerMultiplier has been added. The explanation of Check Sum has been changed. 					
	 The explanation of program setting for each block has been changed. 6.3.1. Maintenance Initial Setting Screen The explanation of the "Enable FA Mode" check box has been added. 6.4.1. Execution Screen The explanation of Check Sum has been changed. 7.3. Data Settings The explanation of "Multi Data Mode" writed on the "② Go to the device setting screen" has been changed. The explanation of the "Main Multiplier" and "PerMultiplier" have been added in the "⑤ Select clock frequency" The explanation of the "user boot mat area" and "E2 data flash area" have been added in the "⑦ Edit data". The "③ Copy device setting (Only in the "Multi Data Mode")" item has been added. 					

 2.3. System Requirements Windows 7(32bit) has been added to OS. 5.1. Installing USB driver 	
5.1. Installing USB driver	
6	
• "5.1.1 Windows 7(32bit)" has been added.	
6.2.1. Device Setting Screen	
•	
	2011/05/18
•	2011/03/10
0 0	
•	
-	
	2011/06/14
	2011/00/14
	2011/07/26
	2011/07/20
6	
	 "Erase/Blank" and "Blank" mode have been added. 6.4.1. Execution Screen "The explanation of serial number has been added to "<<result section="">>".</result> 7. Remote Mode The parts related to Remote Mode have been brought together. 8. Stand-alone Mode The parts related to Stand-alone Mode have been brought together. 9. Messages and Warnings "The warning messages have been added. 2.2. Function Specifications *Channel mode has been added. 4.3. Connection for Remote Programming "When supplying voltage to the target board using an external power supply - Multi CH Mode" has been added. 6.1. Main Screen *Main screen in the "Multi CH Mode" has been added to the "6.1.1 Main Screen". *Ge.1.3 Initialize Setting Screen" has been added. *G.1.4 UpLoad Setting Screen" has been added. *G.1.5 DownLoad Setting Screen" has been added. *G.1.6 Program Setting Screen" has been added. *G.1.6 Program Setting Screen" has been added. *Multi CH Mode" has been added. *Multi CH Mode" has been added. *G.1.6 Program Setting Screen" has been added. *G.1.7 Mode" has been added. *Aution Screen in the "Multi CH Mode" has been added. *G.1.6 Program Setting Screen" has been added. *G.1.7 Program Setting Screen" has been added. *G.1.6 Program Setting Screen * has been added. *G.1.7 Program Setting Screen * has been added. *G.1.6 Program Setting Screen * has been added. *T.2 Multi CH Mode" has been added. *G.1.7 Program Setting Screen * has been added. *G.1.8 Program Setting Screen * has been added. *G.1.9 Program Setting Screen * has been added. *G.1.1 Mintenance Initial Setting Screen * has been added. *G.1.8 Program Setting Screen * has been added. *G.1.9 Program Setting Screen * has been added. *G.1.1 Mode" has been ad

Revit	2.2.Function Specifications	2012/03/07	
Rev.G	• The Operation Mode has been changed.	2012/03/07	
	2.7. Target Connecting Cable		
	• The explanation of Target Connecting Cable has been changed.		
	• Target Connecting Cable name has been changed.		
	3. Circuitry Examples		
	•Circuitry Examples have been deleted .		
	6.2.1. Device Setting Screen		
	• "Set Vcc" and "Chip Erase" mode have been added.		
	•The explanation of Communication has been changed.		
	6.2.11.ROM Protection Setting Screen		
	• "RL78,78K Family" has been added.		
	6.2.12.Input Vcc Setting Screen		
	•"6.2.12.Input Vcc Setting Screen" has been added.		
	6.3.1. Maintenance Initial Setting Screen		
	•The explanation of "Enable Expansion Action Mode" has been changed.		
	7.1.1.2.Maintenance Settings		
	• "Select extended operation mode " has been changed.		
	9. Messages and Warnings		
	The warning messages have been added.9.4.List of Error Information on Center Display		
	•The explanation of "Protect Err" has been added.		
	9.5.Execution Detail Screen List		
	•The explanation of "Protect Err" has been added.		
	10.9. I only can select "Erase/Program/Verify" or "Verify" for the execution process.		
	"Chip Erase" mode has been added.		
Rev.H	2.7. Target Connecting Cable	2013/04/05	
	•Custom cable model have been added.		
Rev.I			
Rev.I	2.2.Function Specifications	2015/06/12	
Rev.I	 2.2.Function Specifications "Clock-synchronous serial I/O[No handshake]" have been added. 	2015/06/12	
Rev.I	• "Clock-synchronous serial I/O[No handshake]" have been added.	2015/06/12	
Rev.I	"Clock-synchronous serial I/O[No handshake]" have been added.6.2.1. Device Setting Screen	2015/06/12	
Rev.I	 "Clock-synchronous serial I/O[No handshake]" have been added. 6.2.1. Device Setting Screen "Clock-synchronous serial I/O[No handshake]" have been added. 	2015/06/12	
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Rev.J	 "Clock-synchronous serial I/O[No handshake]" have been added. 6.2.1. Device Setting Screen "Clock-synchronous serial I/O[No handshake]" have been added. 9.1. Message Dialogs The warning messages have been modified. 9.3. Led Status List List have been modified. 9.4. List of Center Display List have been added. 	2015/10/28	
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Rev.J Rev.K	 "Clock-synchronous serial I/O[No handshake]" have been added. 6.2.1. Device Setting Screen "Clock-synchronous serial I/O[No handshake]" have been added. 9.1. Message Dialogs The warning messages have been modified. 9.3. Led Status List List have been modified. 9.4. List of Center Display List have been added. 2.3. System Requirements Windows 10 and 8.1 has been added to OS. 5. Setting Up The procedures of installing and uninstalling have been modified. 	2015/10/28 2016/09/22	
Rev.I Rev.J Rev.K Rev.L	 "Clock-synchronous serial I/O[No handshake]" have been added. 6.2.1. Device Setting Screen "Clock-synchronous serial I/O[No handshake]" have been added. 9.1. Message Dialogs The warning messages have been modified. 9.3. Led Status List List have been modified. 9.4. List of Center Display List have been added. 2.3. System Requirements Windows 10 and 8.1 has been added to OS. 5. Setting Up The procedures of installing and uninstalling have been modified. 	2015/10/28	
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Rev.N	2.1. Specifications	2020/01/10					
Rev.IN	2.1. Specifications	2020/01/10					
	- "CE Mark Obtained" has been added.						
	2.2. Function Specifications						
	- Programmable MCU has been modified.						
	2.4. Programmable Device						
	 Programmable MCU has been modified. 6.2.1. Device Setting Screen The explanations about "Flash Option", "Security Bit" and "Read" have been added. 6.2.9. Target MCU ID Code Setting Screen The explanation for "TXZ3 Series" has been added. 						
	6.2.11. ROM Protection Setting ScreenThe explanation for "TXZ3 Series" has been added.The explanation for "RX100 Series" has been added to "78K Family or RL78 Family".						
	6.3.3. Execution Operation Log Display Screen						
	- "6.3.3.1. Details of Execution Operation Log" has been added.						
	- The explanation about "Read" has been added.						
	8. Stand-alone Mode						
	- The explanation about "Read" has been added.						
	9. Messages and Warnings						
	- The explanation about "Read" has been added.						
	9.1. Message Dialogs						
	The message for "TXZ3 Series" has been added.9.5. List of execution result on Center Display, Execution Screen and Execution Detail						
	Screen						
	- The relations of execution result displayed on Center Display, Execution Screen and Execution Detail Screen have been clarified.						
	10. Troubleshooting						
	- The execution result displayed on Center Display, Execution Screen and Execution						
	Detail Screen have been added to several cases.						
Rev.O	6.2.1. Device Setting Screen	2020/10/09					
	- The explanation about the ID code for device identification has been added.						
	6.2.9. ID Code for Device Identification Setting Screen						
	- The title has been changed from "Target MCU ID Code Setting Screen".						
	- The explanation about changing the ID code for device identification in case of big						
	endian has been added.						
	6.3.1. Maintenance Initial Setting Screen						
	- The explanation about the "Enable Standalone" check box has been added.						
	7.1.1.3. Data Settings						
	- The explanation about the ID code setting when selecting the user program file has						
	been added.						

International Standard

•CE Mark Obtained (EMI:EN55011 Group1 ClassA, EMS:EN61000-6-2)

•FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions; (1)This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.

Serial Flash Programmer [S550-SFWv3] Operation Manual

Date of Issue	:	March 2010 (First edition)
Date of Revision	:	October 2020 (Rev.O)
Publisher	:	Sunny Giken Inc.
Publishing office	:	3-1-9 Nishidai, Itami, Hyogo
		Japan 664-0858
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