

2409TW V1.0.5

# **ID-GRIDNEMO Series**

# GFNF-1A1A 、 GFNF-2A2A

# GFNF-3A3A 、 GFNF-4A4A

# GFNF-1A3A 、 GFNF-2A4A

# **Module User Manual**

DAUDIN CO., LTD.

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# **1.** Introduction

The Nemo series is an integrated IO module composed of a communication board and an IO board. Its design integrates network protocols with digital input and output capabilities into a standalone module. The communication board is responsible for fieldbus communication, enabling connections with the master controller or host computer. It supports four network protocols: ModbusTCP, EtherCAT, EtherNET/IP, and PROFINET. The applications include 32-channel digital input, 32-channel digital output, 16-channel digital input and 16-channel digital output. Users can choose between SINK (NPN) or SOURCE (PNP) models based on their needs. Using an integrated IO module can achieve lower costs when the number of usage points is small.

# **2.** Common Module List

Part Number	Description	Remarks
GFNF-1A1A EtherNet/IP Communication, 32-channel Digital Input Module		SINK(NPN)
GFNF-2A2A	EtherNet/IP Communication, 32-channel Digital Input Module	SOURCE(PNP)
GFNF-3A3A	EtherNet/IP Communication, 32-channel Digital Output Module	SINK(NPN)
GFNF-4A4A	EtherNet/IP Communication, 32-channel Digital Output Module	SOURCE(PNP)
GFNF-1A3A	EtherNet/IP Communication, 16-channel Digital Input/Output	SINK(NPN)
	Module	
GFNF-2A4A	EtherNet/IP Communication, 16-channel Digital Input/Output	SOURCE(PNP)
	Module	





1. THIS DEVICE IS FOR INDOOR USE ONLY, DON'T PUT OR USE IT IN HIGH TEMPERATURE AND HIGH MOISTURE ENVIRONMENT.

CET EQUIPEMENT EST DESTINE A UN USAGE INTERIEUR UNIQUEMENT NE PAS STOCKER OU UTILISER DANS UN ENVIRONNEMENT A HAUTE TEMPERATURE ET HAUTE HUMIDITE.

2. AVOID FALLING AND BUMPING OTHERWISE THE ELECTRICAL COMPONENTS WILL BE DAMAGED.

ÉVITEZ DE TOMBER ET DE VOUS ÉCRASER, SINON LES COMPOSANTS ÉLECTRIQUES SERONT ENDOMMAGÉS

3. DON'T TRY TO DISASSEMBLE OR OPEN THE COVER UNDER ANY CIRCUMSTANCE IN ORDER TO AVOID DANGER.

NE TENTEZ JAMAIS DE DEBALLER OU D'OUVRIR LE COUVERCLE POUR EVITER TOUT DANGER.

4. IF THE EQUIPMENT IS USED IN A MANNER NOT SPECIFIED BY THE MANUFACTURER, THE PROTECTION PROVIDED BY THE EQUIPMENT MAY BE IMPAIRED.

SI L'APPAREIL N'EST PAS UTILISE DE LA MANIERE INDIQUEE PAR LE FABRICANT, LA PROTECTION FOURNIE PAR L'APPAREIL PEUT ETRE ALTEREE.

5. THE INSTALLATION THAT THE SAFETY OF ANY SYSTEM INCORPORATING THE EQUIPMENT IS THE RESPONSIBILITY OF THE ASSEMBLER OF THE SYSTEM.

L'INSTALLATION DE TOUT SYSTÈME INTÉGRANT CET ÉQUIPEMENT EST LA RESPONSABILITÉ DU CONSTRUCTEUR DU SYSTÈME.

6. USE WITH COPPER CONDUCTORS ONLY. INPUT WIRING: MINIMUM 28 AWG, 85°C, OUTPUT WIRING: MINIMUM 28 AWG, 85°C

DESTINÉ À ÊTRE UTILISÉ AVEC DES CONDUCTEURS EN CUIVRE SEULEMENT. CABLAGE D'ENTREE: MINIMUM 28 AWG, 85 ° C. CABLAGE DE SORTIE: MINIMUM 28 AWG, 85 ° C.

7. FOR USE IN A CONTROLLED ENVIRONMENT. REFER TO MANUAL FOR ENVIRONMENTAL CONDITIONS.

POUR UN ENVIRONNEMENT CONTROLE. REPORTEZ-VOUS AU MANUEL DES CONDITIONS ENVIRONNEMENTALES.

8. DISCONNECT ALL SOURCES OF SUPPLY BEFORE SERVICING.

COUPER TOUTES LES SOURCES D'ALIMENTATION AVANT DE FAIRE L'ENTRETIEN ET LES

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RÉPARATIONS.

9. PROPER VENTILATION IS REQUIRED TO REDUCE THE RISK OF HAZARDOUS OR EXPLOSIVE GAS BUILDUP DURING INDOOR CHARGING. SEE OWNERS MANUAL.

UNE VENTILATION ADÉQUATE EST NÉCESSAIRE AFIN DE RÉDUIRE LES RISQUES D'ACCUMULATION DE GAZ DANGEREUX OU EXPLOSIFS DURANT LA RECHARGE À L'INTÉRIEUR. VOIR LE MANUEL D'ENTRETIEN.

10. PLEASE BE SURE TO USE CERTIFIED POWER SUPPLY WITH SELV OUTPUT OR CERTIFIED POWER SUPPLY PROVIDING DOUBLE INSULATION EVALUATED BY UL60950-1, UL 62368-1, OR UL61010-1 AND UL61010-2-201 STANDARDS.

VEUILLEZ VOUS ASSURER D'UTILISER UNE ALIMENTATION CERTIFIÉE AVEC SORTIE SELV OU UNE ALIMENTATION CERTIFIÉE OFFRANT UNE DOUBLE ISOLATION ÉVALUÉE PAR LES NORMES UL60950-1 OU UL 62368-1 OU UL61010-1 ET UL61010-2-201.



# **2.** Module Specifications



# **2.1** Communication Port Specifications

Communication Port Specifications					
Protocol	EtherNet/IP				
Interface	2 x RJ-45				
Transmission speed	10/100 Mbps				

# **2.2** Electrical Specifications

Electrical Specifications						
Part Number	Working Voltage	Working Current				
GFNF-1A1A		MAX,130mA,24VDC				
GFNF-2A2A		MAX,130mA,24VDC				
GFNF-3A3A	$24$ VDC ( 159/ $\pm 209/$ )	MAX,170mA,24VDC				
GFNF-4A4A	24 VDC (-1570~+2070)	MAX,160mA,24VDC				
GFNF-1A3A		MAX,150mA,24VDC				
GFNF-2A4A		MAX,150mA,24VDC				



# **2.3** General Specifications

General Specifications					
Size (W x D x H)	25 x 116 x 85mm				
Weight	140g				
Operating Temperature	-10 +60 °C				
Storage Temperature	-25°C+85°C				
Relative Humidity	RH 95%, non-condensing				
Altitude Limit	< 2000 m				
IP Protection Level	IP 20				
Pollution Degree	II				
Safety Certifications	CE				
Wire Gauge Range (IEC / UL)	$0.2 \text{ mm}^2 \sim 1.5 \text{ mm}^2 / \text{AWG } 24 \sim 16$				



# **2.4** Module IO Board Specifications

Digital Input Specifications							
Signal Type	SINK(NPN)	SOURCE(PNP)					
Signal 0 Voltage Range	15VDC30 VDC	0 VDC10 VDC					
Signal 1 Voltage Range	0 VDC10 VDC	15 VDC30 VDC					
Number of Channels		32,16					
Maximum Input Data Length	4	Bytes					
Rated Voltage	2	4VDC					
Isolation	Optocou	upler Isolation					
Protection Circuit	Overvolt	age Protection					
Input Filtering Time	3ms						
System Indicators	2 Green LEDs (PWR, SYS), 2 Red/Green LEDs (ST, ERR)						
Channel Indicators	32 Green LEDs, Input Channel Status						
Digital Output Specifications							
Signal Type	SINK(NPN)	SOURCE(PNP)					
Number of Channels	3	32,16					
Maximum Output Data Length	4 Bytes						
Rated Voltage	24VDC						
Load Specifications	Resistive Load, Inductive Load, Lamp Load						
Channel Rated Current	$\leq 0.5 \mathrm{A}$						
Isolation	Optocoupler Isolation						
Protection Circuit	Overvoltage Protection						
System Indicators	2 Green LEDs (PWR, SYS), 2 Red/Green LEDs (ST, ERR)						
Channel Indicators	32 Green LEDs, Input Channel Status						



# **3.** Module Panel Introduction

# **3.1 Integrated Module Panel**

### 3.1.1 Product Interface and Function Description



Fig 3.1 . Front and Side Views

NO.	Name	Description	
1	Module Status Indicators	System and Communication Status Indicators	
2	Configuration Interface	USB Type C, System Configuration	
3	Network Communication Interface	RJ45 x 2, System Network Protocol Communication Interface	
4	Fieldbus Power	Fieldbus (Field) Power Interface, 24V DC,	
-	Interface	Push-in Terminals	
5	System Power Interface	Module System Power Interface, 24V DC, Push-in Terminals	



#### **3.1.2Indicator Description**

	Integrated Module Indicators							
Name	Label	Color	Status	Description				
Power	DWD	Crear	On Normal Power Supply					
Indicator	PWK	Green	Off	Module Not Powered				
			On	System Running				
System	SYS	Green	Off	System Stopped				
Indicators			Flashing	System Waiting for Network Connection (Slow Flash at 4Hz) <sup>Note 1</sup>				
		Red	On	Duplicate IP address				
		Red	Flashing	Connection timeout				
Connection	ST	Graan	On	Normal connection				
Indicator	51	Green	Flashing	Waiting for connection				
		Red &Green	Off	IP not set				
			Flashing	Self-test (red and green cross flashing)				
			On	Module Firmware Update				
Alarm	ERR	Red	Off	No Error Alarm				
Indicator			Flashing	Module Parameters Restored to Default Note 2				
		Green	Off	Normal Mode				
通道	01.22	Groop	On	Channel Input/Output Normal				
指示燈	01~32	Green	Off	No Signal Input or Output				
			Network	Port Indicators				
Name Label		Color	Status	Description				
			On	Network Connected				
Connection		1 2 Green	Off	No Network Connection, Abnormal				
Status	X1 X2		Flashing	Data Transmission				
mulcator			On	100 Mbps				
			Flashing	10Mbps				

Note 1 : 32-Channel Digital Output Module Supported (GFNF-3A3A/GFNF-4A4A)

<sup>Note 2 :</sup> Activating the button function causes the red light to remain steady for more than 6 seconds. After releasing the button, it flashes 3 times.



# 4. Module Installation and Removal Instructions

### 4.1 Installation

Align the module according to the arrow direction on the side and snap it onto the top of the DIN rail.

Once positioned, the latch automatically secures it to the rail.



Fig 4. 1 Module Installation Diagram

※ Note: After the module is installed and positioned, the latch automatically secures onto the rail. If it does not secure properly, please press the top of the latch on both sides.



### 4.2 Removal

Pull downward on the plastic hook beneath the module using a screwdriver. To remove the module from the DIN rail, reverse the steps used for installation.



Fig 4. 2 Module Removal Diagram



## 4.3 Module Dimensions

#### 4.3.1 Module Dimensions





Fig 4. 3 Module Dimensions Diagram



# **5.** Module Wiring Instructions

# 5.1 Module Wiring Diagram



Fig 5. 1 Module Wiring Diagram



# 5.2 IO Board Wiring Diagram

#### 5.2.1 GFNF-1A1A



Fig 5. 2 GFNF-1A1A Wiring Diagram



#### 5.2.2 GFNF-2A2A



Fig 5. 3 GFNF-2A2A Wiring Diagram



#### 5.2.3 GFNF-3A3A



Fig 5. 4 GFNF-3A3A Wiring Diagram



#### 5.2.4 GFNF-4A4A



Fig 5. 5 GFNF-4A4A Wiring Diagram



#### 5.2.5 GFNF-1A3A



Fig 5. 6 GFNF-1A3A Wiring Diagram



#### 5.2.6 GFNF-2A4A



Fig 5. 7 GFNF-2A4A Wiring Diagram



# **6.** Parameter Setting and Configuration Instructions

# 6.1 Module Configuration

As shown below, the module is configured primarily utilizing an integrated approach



Fig 6. 1

Note: USB data cable configuration is for a single integrated module.



# 6.2 Module Parameter Explanation

Module Configuration	Module Settings			
	✓ 1-Internet Settings			
	IP Address	192.168.1.20		
	Mask	255.255.255.0		
	Gateway	192.168.1.1		
	MAC	0C:73:EB:70:37:FD		
	✓ 2-Module Information	ı		
010	Firmware Version	2.0.0.r		
	Hardware Version	V02		
01.10	Product Serial Number	GFNFD483241900153		

### Fig 6. 2 Integrated Module Parameters

#### 6.2.1 General Settings

• Channel # Restore Time: If unset, it defaults to 0, indicating that the restore function is not enabled.

If the timeout parameter is set to 1000, it means that within 1 second, the module must exchange IO data with the host computer. If no data exchange occurs within this set time, the module will set the output channels to 0. This feature is supported by models with digital outputs only (GFNF-3A3A/GFNF-4A4A/GFNF-1A3A/GFNF-2A4A

#### **6.2.2 Internet Settings**

- IP Address: Can be configured in IPv4 network address format, with a default factory setting of 192.168.1.20.
- Subnet Mask: Configurable; default setting is 255.255.255.0.
- Default Gateway: Configurable; default setting is 19.168.1.1.
- Physical Address: Not configurable; MAC address is factory-set for network identification of different device modules.

#### 6.2.3 Module Information

- Firmware Version: Current module firmware version
- Hardware Version: Module hardware design version
- Product Serial Number: Unique identifier for Daudin products



As shown in Figure 6.2, all parameters (except MAC) can be configured as needed.

After completing the settings, proceed to upload the parameters as shown in Figure 6.3.

Homepage M Series Online Settings C Series Onli		ne Settings Nemo Series Online Settings			gs GX Serie	GX Series Online Settings				
ſ↓	L.		~	0	0	1	C	$\checkmark$		C
Communication Mode <del>-</del>	Communication Information	Connect	DisConnect	System ON	System OFF	Upload Parameters	Reload	Online Configuration	Updates Check	Firmware Update
	Communicatio	on				Control				

Fig 6. 3 Upload Parameters



Before proceeding with relevant settings, the system operation must be paused  $\circ$ 



### 6.3 Factory Defaults

Apart from setting parameters through i-Designer, users can also reset system parameters using the reset button located inside the side casing.

Press Time/Mode	Application Mode
Light Press (<6 seconds)	Module restart (RESET)
Long Press (>6 seconds)	Restore default parameters (Application Mode) <sup>Note</sup>

Note: When the user presses the reset button for more than six seconds, the ERR light will turn on red. After releasing the button, the red light will flash, indicating that the default parameters have been restored.



Fig 6. 3 System Reset Button



# **7.** Appendix I: i-Designer Instructions

### 7.1 Installation

Download the i-Designer program from the official website, then click on the program (as shown in the figure) to install it



Fig 7. 1 Program Icon

After reading the user agreement, please check the box and click Start Installation.



Fig 7. 2 Click Start Installation



During installation, the progress will be displayed.



Fig 7. 3 Installation Progress

Once the software installation is complete, you can choose to run it immediately by clicking the Finish button.



Fig 7. 4 Installation Complete



### 7.2 UI Screen Description

After installation, locate the program icon on the desktop and click it to open the settings screen (see the figure below).



Fig 7. 5 Program Icon

The screen is organized as follows, from top to bottom:

- I. Tab Area: Select different product series or switch languages.
- II. Function Key Area: Displays different function keys based on the selected tab.
- III. Display and Configuration Area: Shows the module status and settings.
- IV. Progress Display Area: Displays the progress of various functions in percentages, helping users understand the current execution status, such as configuration or updates.



Fig 7. 6 Default Homepage



#### 7.2.1 Tab Area :

- Homepage Tab: Provides information about i-Designer and options for switching the language. Refer to sections 7.2 and 7.3 for more details.
- (2) Product Settings Tab: Used for setting parameters for various IO-GRID product series.

					i Designer[USP_Medel		
Hom	nepage	M Series	Online Settings	C Series Online Settings	Nemo Series Online Settings	GX Series Online Settings	
Abc i-Desi	Dut igner	Switch Language +					
6				<b>いられていたい</b> <b>CO-GRID M I/O模組</b> 減少自動化系統維護及函 置困擾 即1世版 Remons 10 - 0.000 0.659 - 8一年1.28年3 助力回答曲 - 通知道常自定之気 - 世界相互的意味の 意見見意味。	HAR R - B		•

Fig 7. 7 Tab



#### 7.2.2 Function Key Area :

The function keys displayed here vary based on the selected tab and product.

The following functions are available:

<b></b>					i-t	Designer[USB	Mode]					-	×
Homepage	M Series Online S	Settings	C Series On	line Setting	s Ne	mo Series On	line Settin	gs G	X Ser	ies Online Se	ttings		
<b>↑</b> ↓	D.	~7	~	0	$\oslash$	1	C	~		Ŭ∎ □	C		T
ommunication Mode *	Communication	Connect	DisConnect	System ON	System OFF	Upload Parameters	Reload	Onlii Configu	ne ration	Updates Check	Firmware Update		I
	Communicatio	on				Contro	d						
Module List			Module Con	figuration					M	odule Settir	ngs		
Module 1	lame								~	1-General S	ettings		٠
→ GFNC	-1A3A								CH	101 Time Loo	k(ms) 0		
									CH	102 Time Loo	k(ms) 0		
									CH	103 Time Loo	k(ms) 0		
			0110						CH	104 Time Loo	k(ms) 0		
			01 · · 10 01 · · 10						CH	105 Time Loo	k(ms) 0		
			0110						CH	106 Time Loo	k(ms) 0		
									CH	107 Time Loo	k(ms) 0		
									CH	108 Time Loo	k(ms) 0		
									CH	109 Time Loo	k(ms) 0		
									CH	110 Time Loo	k(ms) 0		
									CF	111 Time Loo	k(ms) 0		Ŧ
			Log Informat	tion									
			D	ateTime		Descrip	otion						
			→ <b>⊘</b> 2	024-07-29	13:40:35	Connec	t successf	ully					
			<b>2</b>	024-07-29	13:40:38	System	stop succ	essfully					

Fig 7. 8 Function Key Area

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圖示	名稱	說明						
6	About i-	Shows software version information.						
•	Designer							
ABC	Switch	Switches between Traditional Chinese,						
1	Languages	Simplified Chinese, and English.						
<b>↑</b> L	Connection	Offers automatic or manual module connection						
IΨ	Mode	modes.						
~	Connect	Connects to the module.						
~	Disconnect	Disconnects from the module.						
0	System Stop	Temporarily stops the module system.						
0	System Running	Starts the module system.						
	Upload	Undates the module settings						
	Parameters	opuates the module settings.						
	Online	Detects IO point status while connected						
•	Adjustment	Detects to point status while connected.						
	Firmware	Manually undates the module firmware						
0	Update	manually updates the module minwale.						



#### 7.2.3 Display and Configuration Area :

- 1. Module List: Displays the models of the connected modules; double-click to access the settings page for the module.
- 2. Module Layout: Shows the actual configuration diagram of the connected modules.
- 3. Module Parameter Settings: Parameters can be modified and uploaded only when the system is stopped.
- 4. Log Information: Displays status messages for the modules.

55					i-De	esigner[USB	Mode]				-	×
Homepage	M Series Online Se	ettings	C Series On	line Settings	Nem	no Series On	line Settin	gs GX Se	ries Online Settings			
<b>∩</b> ↓	□	~7	~*	0	0	1	C	~		С		٦
Communication Mode +	Communication Information	Connect	DisConnect	System S ON	ystem OFF I	Upload Parameters	Reload	Online Configuratio	Updates Firm n Check Up	nware date		
	Communicatio	n				Contro	l.					
Module List			Module Conf	figuration				1	Iodule Settings			
Module Na	ame		1001107-00						1-General Setting	js		-
→ GFNC-1	.A3A							C	H01 Time Lock(ms)	0		
								C	H02 Time Lock(ms)	0		
			01.10					C	H03 Time Lock(ms)	0		
			0110					C	H04 Time Lock(ms)	0		
			01.10					C	H05 Time Lock(ms)	0		
			0110					C	H06 Time Lock(ms)	0		
								C	H07 Time Lock(ms)	0		
								C	H08 Time Lock(ms)	0		
								C	H09 Time Lock(ms)	0		
								C	H10 Time Lock(ms)	0		
								C	H11 Time Lock(ms)	0		Ŧ
			Log Informat	tion								
			D	ateTime		Descrip	tion					
			→ ⊘ 2	024-07-29 13	3:40:35	Connec	t successfi	ully				
			2	024-07-29 13	3:40:38	System	stop suco	essfully				

Fig 7.9 Display and Configuration Area



# 7.3 i-Designer Information Verification

Click on the homepage  $\rightarrow$  About i-Designer



Fig 7. 10 Software Information



# 7.4 Language Settings

Click on the homepage  $\rightarrow$  Switch Language. i-Designer currently supports three languages: Traditional Chinese, Simplified Chinese, and English. Use this feature to change the language.



Fig 7. 11 Language Selection



### 7.5 COM Port Connection Settings

i-Designer communicates with iO-GRID modules primarily through the COM Port interface. The connection mode can be either automatic module search or manual COM Port connection.

- I. In automatic search mode, i-Designer will automatically search for devices on the COM Port to connect.
- II. n custom mode, if the automatic search mode cannot connect to the device, it is recommended to use the custom mode to connect to the iO-GRID.Before setting up the connection, confirm the module COM Port interface number on your system as shown in Figures 7.13-7.16.



Fig 7. 22 Connection Mode Selection





Find the device number in Device Manager  $\rightarrow$  Ports (COM & LPT).

Fig 7. 33 Searching Device Manager



Fig 7. 44 Confirming Device Manager COM Port Number



After selecting custom mode, click on connection information to set the connection

parameters. i-De Nemo Series Online Settings B **1**↓ ~~ 1 Connect ommunicatio Information 2 Module Configuration Module Settings Module Name 1 Log Information DateTime Description 2024-07-29 14:50:33 2024-07-29 14:50:39 Disconnect Ø 0 Connect successfully Ø 2024-07-29 14:53:40 Disconnect

Fig 7. 55 Custom Mode Connection Settings

Enter the COM Port connection number from Device Manager and save it.

You can then proceed with the connection.

\overline Co	mmunication Inf	formation	×
Nen	no Module		
$\checkmark$	USB Mode		
	Port Number	COM9	
		Save	

Fig 7. 66 Setting Connection COM Port



# 7.6 Connection Setting Instructions

<b>—</b>	i-C	)esigner	- 0	×
首頁 M系列 總上設署 C系列	刘 線上設置 Nemo 系列 線上調	设置 GX系列線上設置		
1 🕞 🗔 🖾	001			
連線模式 連線資計 連線 線	系統運行 系統停止 上傳參!	敗 線上調試 韌體更新		
▼ 通訊	調校			
模组列表	模組規劃	 	模组參數設定	
模組				
	日誌資訊	444.3.17		
	時间	祖娅		

Fig 7. 77 Setting Connection

After a successful connection, the connect button in the function key area will be hidden, and the disconnect and system stop buttons will be displayed, as shown in Figure 7.18.

<b>a</b>					i-Designer[US	B Mode]					
Homepage	M Series Online S	ettings	C Series Or	nline Settings	Nemo Series C	online Setting	gs GX S	Series Online Se	ttings		
<b>↑</b> ↓	L.	~	~*	0 (	2	B	$\sim$		C		
Communication Mode +	Communication Information	Connec	DisConnect	System System C	stem Upload DFF Parameter	Reload s	Online Configurati	Updates ion Check	Firmware Update		
	Communicatio	on			Cont	ol					
Module List			Module Cor	nfiguration				Module Regis	ter		
Module Na	ime							✓ 1-System In	formation		
→ GFNC-1	A3A							System Runnin	g Sta Wa	iting for network connection	on
								✓ 2-Register I	Data		
							-	DI CH01	0		
								DI CH02	0		
								DI CH03	0		
								DI CH04	0		
								DI CH05	0		
								DI CH06	0		
								DI CH07	0		
								DI CH08	0		•
			Log Informa	ation							
				DateTime	Descri	ption					
			<b>O</b> 2	2024-07-29 14:5	3:40 Discor	nect					
			0	2024-07-29 14:5	i9:58 Conne	ct successfull	ly				
			→ 📀 2	2024-07-29 15:0	00:03 System	n run success	fully				
											Ŧ
											_





					i-Designer[	JSB Mode]					×
Homepage	M Series Online Sett	tings C	Series On	line Settings	Nemo Series	Online Setti	ngs GX S	Series Online Setting			
<b>↑</b> ↓	D.	~7	~	0	0 🕇	C	~	<b>⊻</b> = □=	C		
Communication Mode *	Communication C Information	Connect D	isConnect	System S ON	System Uploa OFF Paramet	d Reload ers	Online Configurati	Updates Fin ion Check U	mware odate		
	Communication				Сог	ntrol					
Module List		M	odule Con	figuration				Module Settings			
Module N	ame							✓ 1-General Settin	qs		
→ GFNC-	LA3A							CH01 Time Lock(ms	) 0		
		5 C						CH02 Time Lock(ms	) 0		
								CH03 Time Lock(ms	) 0		
			0 ·· 0					CH04 Time Lock(ms	) 0		
								CH05 Time Lock(ms	) 0		
			<b>01··i0</b>					CH06 Time Lock(ms	) 0		
								CH07 Time Lock(ms	) 0		
								CH08 Time Lock(ms	) 0		
								CH09 Time Lock(ms	) 0		
			61-16 6					CH10 Time Lock(ms	) 0		
								CH11 Time Lock(ms	) 0		Ŧ
		Lo	g Informa	tion							
			C	DateTime	Des	cription					
		$\rightarrow$	<b>②</b> 2	024-07-29 13	3:40:35 Cor	nect success	fully				
			-	024 07 20 12	0.40.00		6.0				

he system must be stopped to set module parameters, as shown in Figure 7.19.

Fig 7.19 System Stop Screen



# 7.7 Parameter Update Instructions

Homepage M Series Online Setting	gs	C Series Onl	ine Settings	i-D Ner	esigner[USB mo Series On	Mode]	gs G)	< Serie	s Online Se	ttings		-		×
	R	~7	O	$\oslash$	1	B	~			C				
Communication Communication Con Mode - Information	nect	DisConnect	System S ON	System OFF	Upload Parameters	Reload		ie ation	Updates Check	Firmware Update				
Communication					Contro									
Module List		Module Conf	iguration					Mo	dule Settir	igs				
→ GFNC-1A3A														
		• • • • •												
		01::0												
		01.10												
														T
		Log Informat	ion											
		Da	ateTime		Descript	ion								
		20	024-07-29 1	5:01:54	System	stop succes	ssfully							
		20	024-07-29 1	5:36:00	Open fil	e successfu	illy							
	-	→ 📀 20	024-07-29 1	5:36:00	Updatin	g								
														Ŧ
Status		_	_		209	%	_	-	_	_	_	_	_	



<b>.</b>				i-Designer[USB Mode]		
Homepage	M Series Online	Settings	C Series Online Settings	Nemo Series Online Settings	GX Series Online Settings	
<b>↑</b> J	- Da			Online Debugging		
ommunicatior Mode +	n Communicatio Information	Select Inpu	ut/Output Module Module N	lame : GFNC-1A3A		
	Communica	Debug				
Module List		Na	me	Value(Bit)		
Module N	Jame	→ DI	CH01	0	A	
→ GENC	-1A3A	DI	CH02	0		
V OINC	LHSH	DI	CH03	0		
		DI	CH04	0		
		DI	CH05	0		
		DI	CH06	0		
		DI	CH07	0		
		DI	CH08	0		
		DI	CH09	0		
		DI	CH10	0		
		DI	CH11	0	<b>v</b>	
				Change		v
				Read		
		Status				- 1
			→ ② 2024-07-29 15:	36:14 System reset successful	ly	
						-

Fig 7.21 Online Adjustment Screen



# 7.8 Firmware Update Instructions

Click on Firmware Update, select the firmware file, and click Open to start the update.

<u>a</u>				
Homepage M Series Online Settings	C Series Online Settings Ner	mo Series Online Settings GX Series On	nline Settings	
	Select update file(GFNC-	-1A3A)	×	
Communication Communication Conne Mode - Information	t DisC ← → ∽ ↑ 📕 > 本根	機 > 桌面 > X手冊改 > 🛛 🗸 🗸	搜尋 X手冊改 り	
Communication	組合管理 ▼ 新増資料夾	3	) · · · · · · · · · · · · · · · · · · ·	
Module List Module Name → GFNC-1A3A	Mod ● 本機 ● 30 物件 ● 下載 ■ 文件 ● 音頻 ■ 頭面 ■ 面片 ■ 影片 ■ 本機磁碟 (C) ● 新増磁碟 (C) ● 新増磁碟 (C) ● 新増磁碟 (C) ● 新増磁碟 (C) ● 新増磁碟 (C) ● 新増磁碟 (C) ● 5 % (\(192.168. ● 5 % (\(192.168.)))))))))))))))))))))))))))))))))))	名稱 20240521_GX_svg i-Designer 英文操作畫面 英文版手冊 英葉欄或 GFNB-1A3A_V20.0.r.bin GFNC_1A3A_101r.bin GFNC_1A3A_200r.bin GFNC_1A3A_200r.bin GFNC-1A3A_200r.bin GFNC-1A3A_101-bin GFNC-1A3A_100-bin GFNC-1A3A_100-bin GFNC-1A3A_10-bin GFNC-1A3A_100-bin GFNC-1A3A_10-bin GFNC-1A3	参改日期 2024/5/21 下午 02-44 2024/5/21 下午 02-44 2024/5/12 下午 01-27 2024/5/17 下午 04-55 2024/3/6 上午 11-20 2023/9/11 上午 11:45 2023/9/11 上午 11:45 二午 01:58 下午 01:58 正午 11:54 2024/4/10 下午 02:34 2024/4/10 下午 02:34 2024/5/10 FF 02:55 2025 2025 2025 2025 2025 2025 2025 2025 2025 2025 2025 2025 2025 2025 2025	×
	→ 2024-07-29 15:36:14	System reset successfully		

Wait for the firmware update progress bar to complete, and the system will restart automatically.

Homenage M Series Online Settings C Se			
nonicpage in center change cost	eries Online Settings Nemo	Series Online Settings	GX Series Online Settings
N 🖪 🗖 🛛		1 2 .	✓ ¤= "C
Communication Communication Connect DisC Mode + Information	connect System System ON OFF Pa	Upload Reload O arameters Confi	nline Updates Firmware guration Check Update
Communication		Control	
Module List Mod	ule Configuration		Module Settings
Module Name			✓ 1-General Settings
→ GFNC-1A3A			
ěi.	•••		
	-00		
	-10		
	-10		
8			
			CH11 Time Lock(ms) 0
Log I	nformation		
	DateTime	Description	
	2024-07-29 15:01:54	System stop successfully	A
	2024-07-29 15:36:00	Open file successfully	
→	2024-07-29 15:36:00	Updating	
			•
Status		20%	

