

EtherCAT G5 Series Library



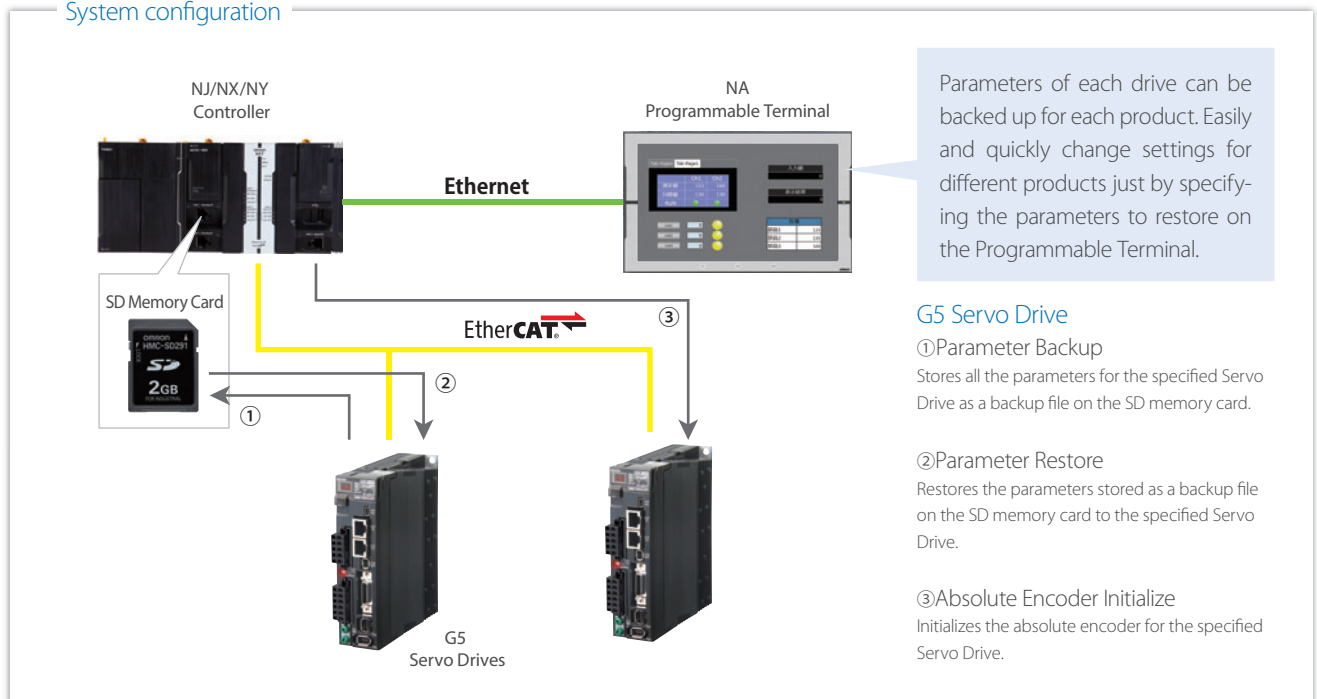
✓ Reduce servo drive setting and replacement work at changeover, maintenance, and operation times.

- Issue 1** Operation rates are low due to the time-consuming changes of servo drive settings.
- Issue 2** Operation became unstable due to changing settings. It takes time to restore to default or previous settings by using old version files to stabilize operation.
- Issue 3** When a broken device is replaced, a PC is required to change parameters.

EtherCAT G5 Series Library offers solution!

The Parameter Backup Function Block backs up the parameters for each servo drive individually* (upload settings from the servo drive), and the Parameter Restore Function Block restores them individually (download settings to the servo drive), without connecting to a PC. You can easily change and recover servo drive settings. The Absolute Encoder Initialize Function Block initializes each absolute encoder individually.

System configuration



* The Backup and Restore functions of the NJ/NX CPU Unit and the NY IPC Machine Controller can back up and restore the parameters for all the nodes at once. The addition of this library allows you to back up and restore the parameters for each node individually.

Changing servo drive settings

From

Setting software (Sysmac Studio or CX-Drive) is used to change settings.



Sysmac Studio



NJ/NX/NY
Controller



G5
Servo Drive

To

The NA Programmable Terminal and push buttons are used as triggers to back up parameters on the SD memory card, restore them from the SD memory card, and initialize the absolute encoder.

SD Memory Card



NJ/NX/NY
Controller



G5
Servo Drive

Compatible Models

Name	Model	Version
Machine Automation Controller NJ/NX CPU Unit	NX701-1□□□/NJ101-□□□□	Version 1.10 or later
	NJ501-□□□□/NJ301-□□□□	Version 1.01 or later
	NX1P2-□□□□□□(1)	Version 1.13 or later
	NX102-□□□□	Version 1.30 or later
Industrial PC Platform NY IPC Machine Controller	NY5□□-1	Version 1.12 or later
	NY5□□-5	Version 1.18 or later
Automation Software Sysmac Studio	SYSMAC-SE2□□□	Version 1.14 or higher
G5 Servo Drive with Built-in EtherCAT Communications	R88D-KN□□□-ECT	Version 2.10 or later
SD Memory Card	HMC-SD□□□	—


Function Block (FB) Specifications

Name	FB name	Description
G5-series Servo Drive Parameter Backup	Backup_G5	Backs up the parameters for a G5 Servo Drive and stores them as a backup file on the SD memory card inserted in the controller.
G5-series Servo Drive Parameter Restore	Restore_G5	Restores the backup file created by the Backup_G5 Function Block on the SD memory card inserted in the controller to a G5 Servo Drive.
G5-series Servo Drive Absolute Encoder Initialize	InitEncoder_G5	Initializes the absolute encoder (clears the multi-rotation counter for the absolute encoder) for a G5 Servo Drive.

Sysmac is a trademark or registered trademark of OMRON Corporation in Japan and other countries for OMRON factory automation products.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

EtherNet/IP™ is a trademark of the ODVA.

The SD logo is a trademark of SD-3C, LLC. 

Other company names and product names in this document are the trademarks or registered trademarks of their respective companies.

Note: Do not use this document to operate the Unit.

OMRON Corporation Industrial Automation Company
Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.

Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.

438B Alexandra Road, #08-01/02 Alexandra
Technopark, Singapore 119968
Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2015-2022 All Rights Reserved.
In the interest of product improvement,
specifications are subject to change without notice.

CSM_2_3
Cat. No. P095-E1-03

0422 (1115)