MITSUBISHI ELECTRIC Inverter
Sales and Service

No. 850E

Firmware Update for the FR-A800-GN Inverters and the FR-A8NCG Plug-in Option

Thank you for your continued patronage of Mitsubishi Electric drive control products.
The firmware of the FR-A800-GN inverters and the FR-A8NCG plug-in option will be updated.

1. Products Affected

FR-A800-GN
FR-A8NCG

2. Details of Change

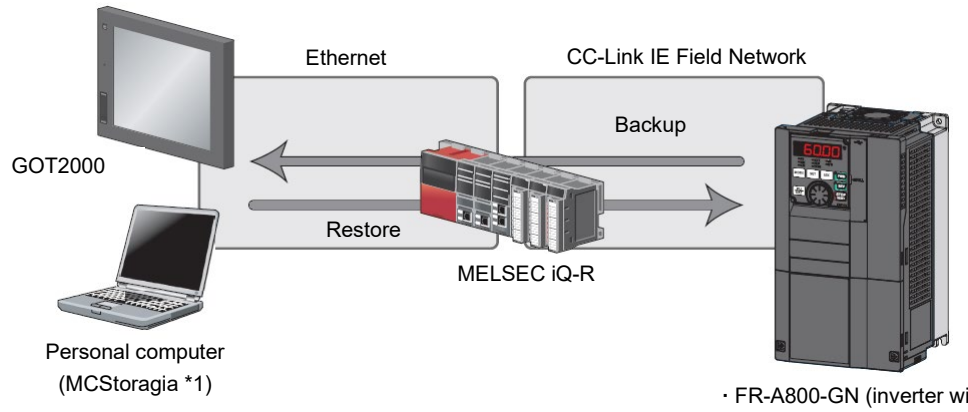
(1) Addition of the backup/restore function

The backup/restore tool (MCStoragia) can be used for backing up inverter parameters and the data used in the PLC function of inverter. The backup data can be used to restore the data in the inverter.

The following data can be backed up and restored.
The data other than those listed in the following table cannot be backed up or restored.

Item
Inverter parameters
Parameters used for activating the PLC function
Programs (including SFCs) used in the PLC function
Global device comment information used in the PLC function
Function block source information

■ Connection via a programmable controller (manager station) (CC-Link IE Field Network)

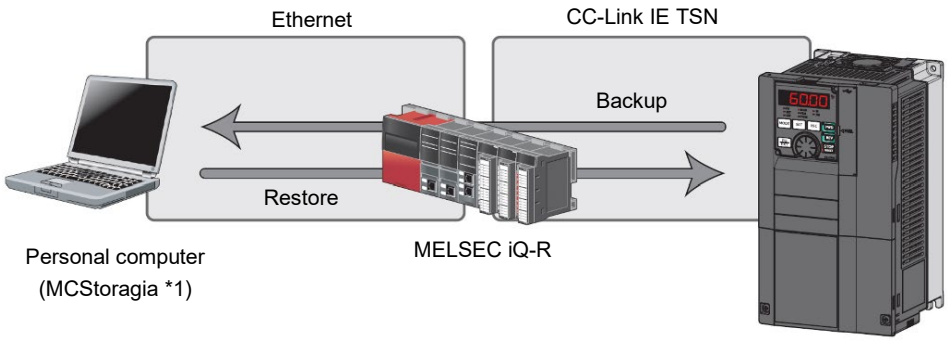


・FR-A800-GN (inverter with built-in CC-Link IE Field Network communication function)
・FR-A800 (with the FR-A8NCG installed)
・FR-F800 (with the FR-A8NCG installed)

*1 MCStoragia is a registered trademark of Mitsubishi Electric Software Corporation.

Date of issue	October 2026	Title	Firmware Update for the FR-A800-GN Inverters and the FR-A8NCG Plug-in Option	Mitsubishi Electric Corp., Nagoya Works 5-1-14 Yada-minami, Higashi-ku, Nagoya 461-8670 Tel.: +81 (52) 721-2111 Main line

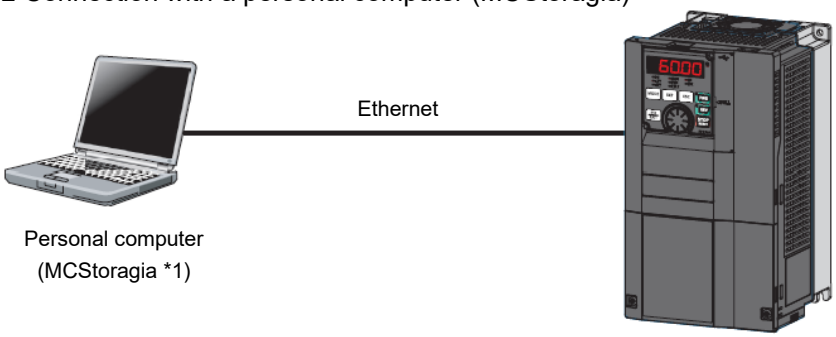
■ Connection via a programmable controller (manager station) (CC-Link IE TSN)



- FR-A800-GN (inverter with built-in CC-Link IE TSN communication function)
- FR-A800 (with the FR-A8NCG installed)
- FR-F800 (with the FR-A8NCG installed)

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■ Connection with a personal computer (MCStoragia)



- FR-A800-GN (inverter with built-in CC-Link IE TSN communication function)
- FR-A800 (with the FR-A8NCG installed)
- FR-A800-E (Ethernet model)
- FR-F800 (with the FR-A8NCG installed)
- FR-F800-E (Ethernet model)

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(2) Supporting connection of 253 stations for the MX-R

For the CC-Link IE TSN communication, the number of connectable units of the FR-A8NCG will be expanded from 120 to 253 stations according to the number of connectable units of the MX-R series.

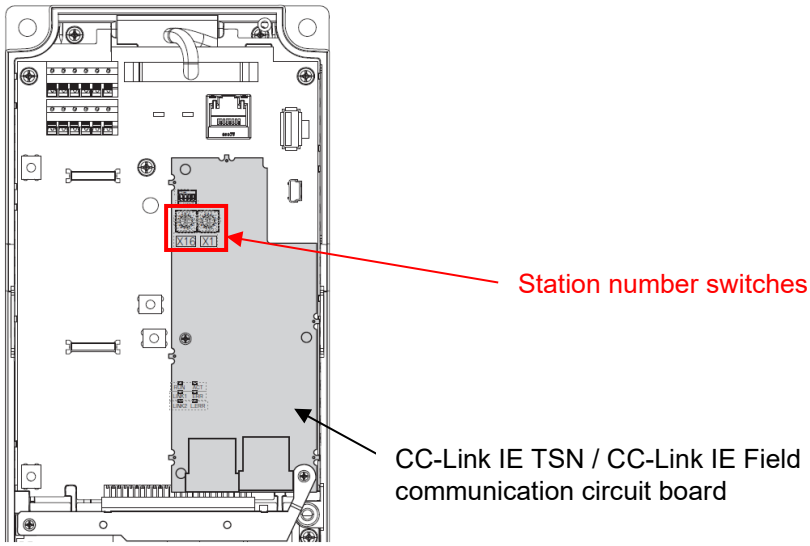
(3) Operation when the station number switch settings are enabled

The improvement for operation will be applied to the subnet mask setting when the station number switches on the communication circuit board are used (with settings other than "0" or "FF") for the CC-Link IE TSN communication.

Station number switches (inverter station number specification)	Operation before firmware update	Operation after firmware update
Settings enabled (with settings other than "0" or "FF")	The subnet mask is set by the parameters (Pr.438 to Pr.441) in the inverter.	The subnet mask is set according to the settings of the manager station.

Location of the station number switches

Schematic diagram of the FR-A800-GN with the front cover open



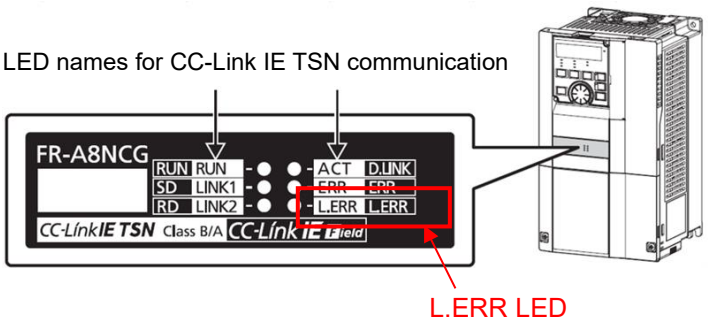
(4) State of the L.ERR LED

The state of the L.ERR LED during loopback will be improved.

* Loopback function: A function that allows the data link to continue among normally-operating stations in a ring topology, even if a cable is disconnected or a station fails.

	Operation before firmware update	Operation after firmware update
State of the L.ERR LED	OFF during loopback	ON during loopback

Location of the L.ERR LED



3. Date of Change

The change will be applied to the products manufactured in November 2026 or later.

4. Product Identification

(1) FR-A800-GN

This change applies to the products having the following SERIAL or later on the rating plate or packaging plate.

SERIAL example on rating plate

□ 6 Y ○○○○○○

Symbol Year Month Control number

SERIAL

SERIAL example on packaging plate

□ 6 Y ○○○

Symbol Year Month Control number

SERIAL

The SERIAL consists of one symbol, two characters indicating the production year and month, and the control number (six characters for the rating plate, three characters for the packaging plate).
The last digit of the production year is indicated as the Year, and the Month is indicated by 1 to 9, X (October), Y (November), or Z (December).

(2) FR-A8NCG

This change applies to the products having the following SERIAL or later on the circuit board.

SERIAL example on circuit board

□ 6 Y ○○○

Symbol Year Month Control number

SERIAL

The SERIAL consists of one symbol, two characters indicating the production year and month, and three characters indicating the control number.
The last digit of the production year is indicated as the Year, and the Month is indicated by 1 to 9, X (October), Y (November), or Z (December).

For the combinations described below, it is assumed that the firmware has never been updated since the inverter was purchased.

The changes described in Section 2 are applied for the following combinations.

	FR-A8NCG	FR-A800, FR-A800-LC, FR-A800-CRN, FR-B, FR-B3 / FR-F800
SERIAL	□ 6Y ○○○ or later	□ 62 ○○○○○○ or later (MADE IN JAPAN)
		□ 63 ○○○○○○ or later (MADE IN CHINA)
Firmware version	-	46 or later / 346 or later

For the following combinations, the changes described in Section 2 (1) Addition of the backup/restore function, (2) Supporting connection of 253 stations for the MX-R, and (4) State of the L.ERR LED are applied.

	FR-A8NCG	FR-A800, FR-A800-LC, FR-A800-CRN, FR-B, FR-B3 / FR-F800
SERIAL	□ 6Y ○○○	□ 05 ○○○○○○ to □ 61 ○○○○○○ (MADE IN JAPAN)
		□ 06 ○○○○○○ to □ 62 ○○○○○○ (MADE IN CHINA)
Firmware version	-	29 to 45 / 329 to 345

For the following combinations, the changes described in Section 2 (2) Supporting connection of 253 stations for the MX-R and (4) State of the L.ERR LED are applied.

	FR-A8NCG	FR-A800, FR-A800-LC, FR-A800-CRN, FR-B, FR-B3 / FR-F800
SERIAL	□ 6Y ○○○	□ 96 ○○○○○○ to □ 04 ○○○○○○ (MADE IN JAPAN)
		□ 97 ○○○○○○ to □ 05 ○○○○○○ (MADE IN CHINA)
Firmware version	-	27, 28 / 327, 328

* The FR-A800, FR-A800-LC, FR-A800-CRN, FR-B, and FR-B3 with firmware version 26 or earlier and the FR-F800 with firmware version 326 or earlier do not support the FR-A8NCG.