

## Sales and Service

### Version Combinations and Settings for the Motion Modules Compatible with CC-Link IE TSN (RD78G and RD78GH)

Thank you for your continued patronage of the Mitsubishi Electric AC servo system. This document will explain the version combinations and settings of the Motion module, programmable controller CPU module, servo amplifier, and engineering tool for when the Motion modules compatible with CC-Link IE TSN (RD78G and RD78GH) are used.

#### 1. Target Model

Motion module RD78G4, RD78G8, RD78G16, RD78G32, RD78G64, RD78GHV, and RD78GHW

#### 2. Details

When the target model is used, the following version combinations and settings are required.

##### 2.1 Motion module (RD78G and RD78GH)

When using additional functions such as a communication cycle of 62.5 μs and public labels for RD78G, use motion system software of version 05 or later.

When the motion system software is updated to version 05 or later from version 04 or earlier, the built-in memory of the Motion module needs to be cleared.

For additional functions and how to clear the built-in memory, refer to MELSEC iQ-R Motion Module User's Manual (Application) and the Help of motion control settings.

##### 2.2 Programmable controller CPU module

When using RD78GH, use the following versions for the firmware of the programmable controller CPU modules. Please contact your local sales office for details.

- R00CPU, R01CPU, and R02CPU: Version 14 or later
- R04CPU, R08CPU, R16CPU, R32CPU, and R120CPU: Version 46 or later
- R□ENCPU: Version 46 or later (CPU side)

##### 2.3 Servo amplifier (MR-J5-G(-RJ) and MR-J5W2-G)

When connecting a servo amplifier at a communication cycle of 62.5 μs or less, use the servo amplifier with software version A6 (released in December 2019) or later.

When the servo amplifier with software version A5 or earlier is connected at a communication cycle of 62.5 μs or less, an alarm (1C47H: Connected driver not compatible with communication cycle) occurs in the Motion module. When connecting a servo amplifier with software version A5 or earlier at a communication cycle of 62.5 μs or less, update the servo amplifier using the firmware update tool. Please contact your local sales office for details.

##### 2.4 Engineering tool (Motion control setting)

###### 2.4.1 Restrictions on version combination

In the online operation (reading from or writing to the module) of the motion control setting, data cannot be read from or written to the connected Motion module depending on the combination with the motion system software version of the connected Motion module.

Refer to Tables 2.4.1 and 2.4.2 for the restrictions on the combination of the motion control setting version and motion system software version of the Motion module.

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Table 2.4.1 Version combination for writing data to the motion module

Motion control setting version	Motion system software version of the connected motion module	
	Version 04 or earlier	Version 05 or later
Version 1.1001B or earlier	○	○
Version 1.1005F or later	× (*1)	○

○: Not restricted, ×: Restricted

\*1: A message prompting you to update the motion system software is displayed. Data cannot be written to the motion module.

Table 2.4.2 Version combination for reading data from the motion module

Motion control setting version	Motion system software version of the connected motion module	
	Version 04 or earlier	Version 05 or later
Version 1.1001B or earlier	○	× (*2)
Version 1.1005F or later	○	○

○: Not restricted, ×: Restricted

\*2: The read processing for the motion control setting will be interrupted.

#### 2.4.2 How to handle problems caused by version combination

If there is no restriction according to "2.4.1 Restrictions on version combination", the module can be used as-is.

If there is a restriction, update the version to the latest one. Please contact your local sales office for details.

When you want to continue using the motion system software of version 04 or earlier of the connected motion module, use the motion control setting version 1.001B (old version).