



Mitsubishi Electric AC Servo System

Motion Module RD78GHW/RD78GHV

December 2019

High-performance type

RD78GH is newly released RD78G is upgraded

New Product Release SV1912-2E





RD78GHV NEW RD78GHW NEW



- Maximum number of control axes: 128 axes/module (RD78GHV) 256 axes/module (RD78GHW)
- ST language program capacity: Built-in ROM max. 64 MB + SD memory card





RD78G4/RD78G8/RD78G16 RD78G32/RD78G64

- Maximum number of control axes: 64 axes/module (RD78G64)
- ST language program capacity: Built-in ROM max. 16 MB + SD memory card







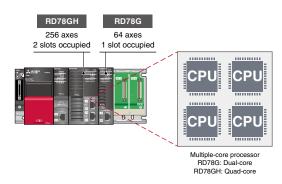




Upgraded

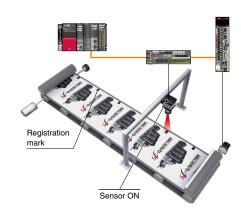
Motion Modules for High-Performance Operation

- Two types of Motion modules are available: RD78G for positioning and synchronous control and RD78GH for higher-accuracy control.
- Control load distribution among PLC CPUs and Motion modules is possible: the PLC CPUs execute machine control, and the Motion modules execute motion control.



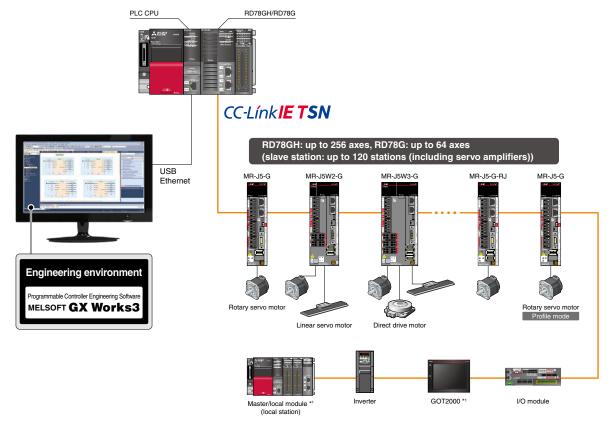
Touch Probe Function (Mark Detection Function) NEW |

This function latches data responding to a trigger signal input. The trigger signal can be inputted to the controller using a remote I/O.



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■ System configuration



*1. Planned for a future support.

■ Specifications list

Item	RD78GHW	RD78GHV	RD78G64	RD78G32	RD78G16	RD78G8	RD78G4
Maximum number of control axes [axes]	256	128	64	32	16	8	4
Minimum operation cycle*1 [µs]	31.25		62.5				
Maximum number of connectable stations	120 stations						
Servo amplifier connection method	CC-Link IE TSN (Authentication class: B)						
Number of I/O points occupied	32 points + 16 points (empty slot)		32 points				
Number of slots occupied	2 slots		1 slot				
5 V DC internal current consumption [A]	2.33		1.93				
Mass [kg]	0.44		0.26				
Dimensions [mm]	106.0 (H) × 56.0 (106.0 (H) × 27.8 (W) × 110.0 (D)					

^{*1.} The minimum operation cycle varies by the number of control axes and the models.

- To use the RD78GH and the upgraded RD78G, the following versions of the firmware and the software are required. To obtain the firmware/software update files, contact your local sales office.
 - Motion module firmware: 05 or later
 - PLC CPU module firmware
 - R00CPU/R01CPU/R02CPU: 14 or later
 - R04CPU/R08CPU/R16CPU/R32CPU/R120CPU: 46 or later
 - R□ENCPU: 46 or later (CPU part)

- GX Works3 Version1: 1.060N or later
- Motion control setting: 1.005F or later
- MR-J5-G servo amplifier firmware: A6 or later

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN NAGOYA WORKS: 1-14, YADA-MINAMI 5, HIGASHI-KU, NAGOYA, JAPAN

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A SAFETY WARNING

To ensure proper use of the products listed in this document, please be sure to read the instruction manual prior to use.