



Mitsubishi Electric FA Website e-learning Motion Control Software SWM-G Basic Supplementary Document

[Title] Required items and compatible equipment

[Document number] BCN-B11260-050EN

[Version] -

[Relevant Model] Motion Control Software SWM-G

This document is a supplementary document for the e-learning Motion Control Software SWM-G Basic course which is available on the Mitsubishi Electric FA website.

The contents of this document are intended to supplement the above e-learning course. For information which is not described in this document, refer to the e-learning course.

This document describes the items required for taking the Motion Control Software SWM-G Basic course, IPC and components (CPU, NIC) compatible with SWM-G, and motion control performance (number of control axes).

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Required item

The following table lists the items required for taking the Motion Control Software SWM-G Basic course.

For the operating environment of SWM-G, refer to the following manual.



Motion Control Software SWM-G User's Manual (Installation) [IB-0300561ENG]

Required item	Description
Personal computer	Intel CPU 6th to 10th Generation, CPU: 2 Cores or more □ For the compatible NIC, refer to "Compatible NIC".
SWM-G license	License number and USB key
SWM-G software	Download a download module from the Mitsubishi Electric FA website.
MR Configurator2	-
Visual Studio 2017/2019	Operation is not guaranteed in other development environments.

Compatible IPC

The following table lists the IPCs for which the SWM-G operation is confirmed.

No.	Manufacturer	Model	CPU	Built-in Ethernet controller (NIC)
1	MITSUBISHI ELECTRIC	MI1002-W	Atom E3826 (2 Cores, 2 Threads, 1.46 GHz, TDP: 7W)	2 x I210
2		MI2012-W	Core i3-6102E (2 Cores, 4 Threads, 1.90 GHz, TDP: 25W)	1 x I210 1 x I219
3		MI3315G-W	Core i3-6100U (2 Cores, 4 Threads, 2.30 GHz, TDP: 15W)	2 x I210 1 x I219
4	HP	HP EliteDesk 800 G6 TWR	Core i9-10900 (10 Cores, 20 Threads, 2.80 GHz, TDP: 65W)	I219 (The extension slot uses a compatible NIC.)
5	Advantech	UNO-3283G-674AE	Core i7-6822EQ (4 Cores, 8 Threads, 2.00 GHz, TDP: 25W)	1 x I210-AT, 1 x I219
6		UNO-348-A531A/A533A	Core i5-10500TE (6 Cores, 12 Threads, 2.30 GHz, TDP: 35W)	1 x I211-AT, 1 x I210-AT, 1 x I219

Compatible CPU

SWM-G is compatible with the following generations of CPU.

Generation of CPU
Comet Lake (10th Gen)
Coffee Lake Refresh (8th/9th Gen)
AMD Ryzen (1st Gen)
Intel® Xeon® Scalable
Intel® Core™ X-series
Coffee Lake (8th Gen)
Apollo Lake
Kaby Lake (7th Gen)
Skylake (6th Gen)
Broadwell (5th Gen)
Haswell (4th Gen)
Ivy Bridge (3rd Gen)
Sandy Bridge (2nd Gen)



- How to distinguish the generations of CPU

The generation of the Intel Core i series of CPUs can be determined by the numeric part of the CPU model name.

It is determined by in the CPU model name: "Core i*-***"



(Example: Core i7 10th Generation Core i7-10700K)

- How to check the CPU model name

Right-click the Windows logo (Start menu) on the Windows task bar, select "System" → "About" from the menu displayed, and check the CPU model name in "Processor".

Compatible NIC

SWM-G is compatible with the following Ethernet controllers (NIC).

Vendor ID	0x8086	0x8086	0x8086
Device ID	0x1533	0x1521	0x1539
Device name	Intel I210 T1 Copper-only Ethernet Controller	Intel I350 Quad/Dual PCIe Copper Ethernet Controller	Intel I211-AT Ethernet Controller
Product (Reference)		intel Ethernet Server Adapter I350 - T2V2	
		intel Ethernet Server Adapter I350 - T4V2 	

Precautions

- When using an Intel I350 NIC, pay attention to the port to be connected.
- For Intel I350, the same IP address may be assigned for every two ports.

Revision

Version	Date	Description
-	August 2024	First edition