

## Memory Cartridge

A user program can be stored on an optional memory cartridge installed on a MicroSmart CPU module from a computer running WindLDR, and the memory cartridge can be installed on another MicroSmart CPU module of the same type. Using a memory cartridge, the CPU module can exchange user programs without using a computer.

User programs can be uploaded and downloaded between a memory cartridge and WindLDR, and downloaded from a memory cartridge to the CPU module. These features are available on all models of FC5A CPU modules.

In addition, a user program can be uploaded from the CPU module to a memory cartridge. This feature is available on CPU modules with system program version 200 or higher.

### Memory Cartridge Type Number

Module Name	Type No.
32KB Memory Cartridge	FC4A-PM32
64KB Memory Cartridge	FC4A-PM64
128KB Memory Cartridge	FC4A-PM128

### User Program Execution Priority

Depending whether a memory cartridge is installed on the MicroSmart CPU module or not, a user program stored on the memory cartridge or on the CPU module EEPROM is executed, respectively.

Memory Cartridge	User Program Execution Priority
Installed on the CPU Module	When a memory cartridge is installed on the CPU module, the user program stored in the memory cartridge is executed. The memory cartridge download function makes it possible to download the user program in the memory cartridge to the CPU module. The memory cartridge upload function makes it possible to upload the user program from the CPU module and store it in the memory cartridge.
Not installed on the CPU Module	The user program stored on the EEPROM in the CPU module is executed.

### Memory Cartridge Specifications

Type No.	FC4A-PM32	FC4A-PM64	FC4A-PM128
Memory Type	EEPROM		
Accessible Memory Capacity	32 KB	64 KB	128 KB
Hardware for Storing Data	CPU module		
Software for Storing Data	WindLDR		
Quantity of Stored Programs	One user program can be stored on one memory cartridge.		

**Note:** The optional clock cartridge (FC4A-PT1) and the memory cartridge cannot be used together on the all-in-one type CPU module. The clock cartridge and the memory cartridge can be used together on the slim type CPU module.

### User Program Compatibility

The CPU module can execute only user programs created for the same CPU module type. When installing a memory cartridge, make sure that the user program stored on the memory cartridge matches the CPU module type. If the user program is not for the same CPU module type, a user program syntax error occurs and the CPU module cannot run the user program.



#### • Compatibility of User Program with CPU Modules

When a memory cartridge contains a user program for higher functionality, do not install the memory cartridge into CPU modules with lower functionality, otherwise the user program is not executed correctly. Make sure that the user program in the memory cartridge is compatible with the CPU module.