

■SIL2 Process CPU

Item		R08PSF	R16PSF	R32PSF	R120PSF	
Operation control method		Stored program cyclic operation				
I/O control mode		Refresh mode (The direct access input/output is available by specifying the direct access input/output (DX, DY).)				
Instruction processing time	LD instruction	0.98ns				
	MOV instruction	1.96ns				
Memory capacity	Program capacity	80K steps (320K bytes) (For safety programs: 40K steps (160K bytes) ^{*6)}	160K steps (640K bytes) (For safety programs: 40K steps (160K bytes) ^{*6)}	320K steps (1280K bytes) (For safety programs: 40K steps (160K bytes) ^{*6)}	1200K steps (4800K bytes) (For safety programs: 40K steps (160K bytes) ^{*6)}	
	Program memory	320K bytes (For safety programs: 160K bytes)	640K bytes (For safety programs: 160K bytes)	1280K bytes (For safety programs: 160K bytes)	4800K bytes (For safety programs: 160K bytes)	
	Device/label memory ^{*1}	1178K bytes	1710K bytes	2306K bytes	3370K bytes	
	Signal flow memory	Area for standard/safety programs	10K bytes	20K bytes	40K bytes	150K bytes
		Area for standard/safety function blocks	256K bytes			
	Data memory	5M bytes	10M bytes	20M bytes	40M bytes	
	CPU buffer memory	1024K bytes (512K words) (including the built-in function information area capacity 4M bytes (2K words))				
	Refresh memory	2048K bytes ^{*2}				
Number of storable files ^{*5}	Program memory (P: number of program files, FB: number of FB files)	380 (including safety programs) (P: 252, FB: 128 (One FB file can store 64 function blocks.))				
	Program memory (P: number of safety program files, FB: number of safety FB files)	48 (P: 32, FB: 16 (One FB file can store 64 function blocks.))				
	Device/label memory (file storage area)	323 (with or without an extended SRAM cassette) ^{*3}				
	Data memory	512 ^{*4}				
	SD memory card	NZ1MEM-2GBSD: 256 ^{*4} NZ1MEM-4GBSD, NZ1MEM-8GBSD, NZ1MEM-16GBSD: 32767 ^{*4}				
Number of storable folders ^{*5}	Data memory	512 ^{*4}				
	SD memory card	NZ1MEM-2GBSD: 256 ^{*4} NZ1MEM-4GBSD, NZ1MEM-8GBSD, NZ1MEM-16GBSD: 32767 ^{*4}				
USB port	USB2.0 High Speed (miniB)×1					
Ethernet port	Refer to the following. ☞ MELSEC iQ-R Ethernet/CC-Link IE User's Manual (Startup)					
Clock function	Year, month, date, hour, minute, second, and day of the week (automatic leap year adjustment) -1.00 to +1.00s/d at 0 to 55°C					
Allowable momentary power failure time	The time differs depending on the power supply module used. (☞ MELSEC iQ-R Module Configuration Manual)					
Internal current consumption (5VDC)	0.76A					
External dimensions	Height	106mm (Base unit mounting side: 98mm)				
	Width	27.8mm				
	Depth	110mm				
Weight	0.20kg					

- *1 The capacity of device area, label area, latch label area, and file storage area can be changed in parameter. The capacity of the device/label memory can be increased by inserting an extended SRAM cassette. (MELSEC iQ-R CPU Module User's Manual (Application))
- *2 This is the total capacity of the device area and module label area.
- *3 System files are included.
- *4 The number indicates the number of files and folders (including system files and system folders) can be created in the root directory on the condition that the number of characters in the file or folder name is 13 or less. In a subdirectory, up to 32767 folders can be created. Note that the number of storable files and folders will decrease if many folders with a long name, more than 13 characters (including an extension), are created.
- *5 The following characters cannot be used for file or folder names: A space, "%*+./;<=>?[]'{}&~@^".
- *6 Up to 40K steps of the program capacity for the standard programs can be used for the safety programs.

Point 

Wait for five seconds or longer after power-off and power on the system again. If the interval between the power-off and the power-on is short, the module may not start up.
