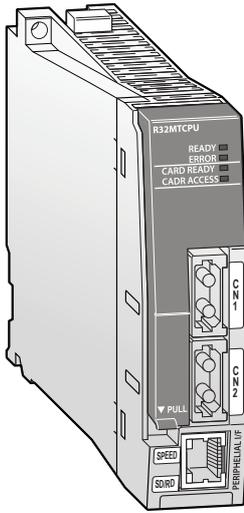


■ Motion CPU modules



Motion CPUs for advanced applications

The motion CPU module is a dedicated high-precision control CPU module, designed solely for applications that require advanced motion control such as positioning control, synchronous control, and speed-torque control at a very high accuracy. A motion system requires a motion controller CPU and a PLC CPU. Only after combining a highly dynamic positioning control CPU and a PLC, an innovative Motion Control system is created.

Special features:

- Large scale control system for up to 192 axes per system
- Up to 3 motion CPU modules can be mounted in one system
- High-speed data communication between CPUs via a large bandwidth data buffer memory exchange.
- Various different applications easily realized
- SFC (Sequential Function Chart) type language enables programming in clearly identifiable steps
- Integration in the high-speed SSCNETIII/H network for communication with high-performance servo amplifiers at up to 150 Mbps

Specifications	R16MTCPU	R32MTCPU	R64MTCPU
Type	Motion CPU	Motion CPU	Motion CPU
I/O points	8192	8192	8192
No. of control axes	16	32	64
Interpolation functions	Linear interpolation for up to 4 axes, circular interpolation for 2 axes, helical interpolation for 3 axes		
Positioning	Method	PTP (point to point), speed control/speed-position control, fixed pitch feed, constant speed control, position follow-up control, speed switching control, high-speed oscillation control, synchronous control (SV22)	
	Acceleration/deceleration control	Automatic trapezoidal acceleration/deceleration, S-curve acceleration/deceleration	
	Compensation	Backlash compensation, electronic gear	
Programming language	Motion SFC, dedicated instruction		
Servo program capacity	32 k steps	32 k steps	32 k steps
No. of positioning points	6400	6400	6400
Servo amplifier network	SSCNETIII/H (1 line)	SSCNETIII/H (2 lines)	SSCNETIII/H (2 lines)
Max. distance between stations	m 100	100	100
Interfaces	Ethernet 100/10 Mbps, SSCNETIII/H (USB, RS232C via PLC CPU), PERIPHERAL I/F, SD memory card		
Servo amplifier	MR-J4-B over SSCNETIII/H		
Operation cycle	ms 0.222, 0.444, 0.888, 1.777, 3.555, 7.111		
Internal power consumption (5 V DC)	A 1.20	1.20	1.20
Weight	kg 0.28	0.28	0.28
Dimensions (WxHxD)	mm 27.8x106x110	27.8x106x110	27.8x106x110
Order information	Art. no. 280227	280288	295076