

SANMOTION C

MOTION CONTROLLER

Compact, Flexible, IoT-enabled

Motion controllers that seamlessly integrate motion control, robot control, and sequence control, offering extensive programming capabilities that have been implemented in a variety of automation and robotic applications. Available in two versions for a high-performance type that supports controlling robots or a standard type that specializes in PTP (Point-to-Point) positioning.

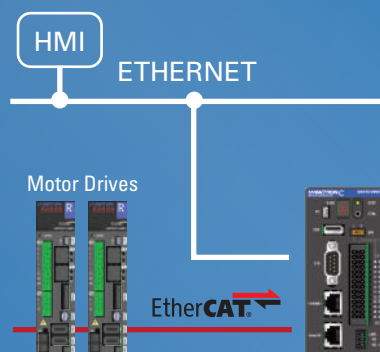


A type for robots and electronic cams

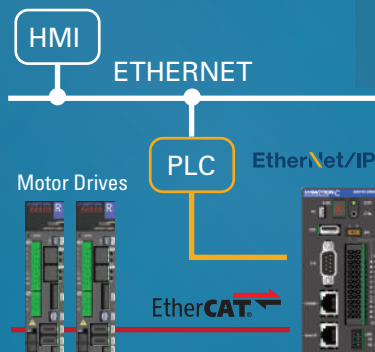
B type for PTP (Point-to-Point) motion

Build a fastest motion control system with **EtherCAT®**

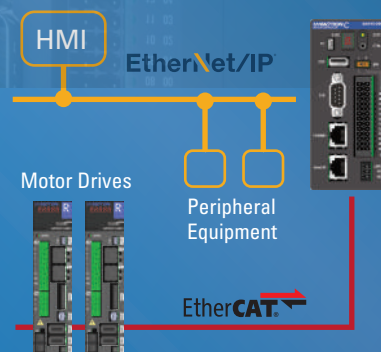
Regular Ethernet



EtherNet/IP PLC



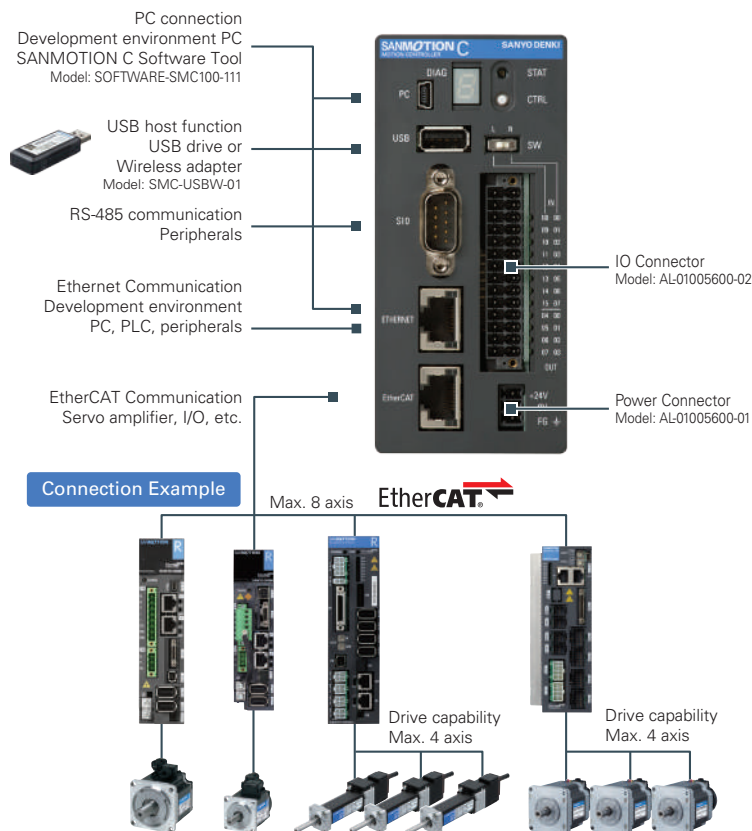
EtherNet/IP Peripheral



Specifications

Model		SMC100-A	SMC100-B
Interface		EtherCAT (100 Mbps) master function	
		Ethernet (10/100/1000 Mbps) protocols (Modbus TCP, OPC-UA)	
		RS-485 (9600 to 115200 bps)	
		USB 2.0 (for data storage and wireless adapter)	
Digital I/O		Digital input: 16 points; rated input voltage: 24 VDC; positive/negative common input Digital output: 8 points; load voltage range: 19.2 to 30 VDC; max. load current: 0.5 A/point; sink output Min. cycle time: 0.5 msec	
Input power supply	main power supply	Rated voltage: 24 VDC; load voltage range: 19.2 to 30 VDC; Rated current: 0.8 A	
	I/O power supply	Rated voltage: 24 VDC; load voltage range: 19.2 to 30 VDC; Rated current: 20 mA	
Power consumption		19.2 W	
Cooling method		Passive	
Dimensions, Mass		55(W) × 120(H) × 110(D) mm, 300 g	
Max. no. of controllable axes		8	
Control functions		Sequence control	Sequence control Motion control (PTP control)
		Motion control (Electronic cam, electronic gear, linear interpolation, circular interpolation)	
		Robot control (Cartesian coordinate, SCARA, and parallel link robots)	
Control language		Programming languages conforming to international standard (IEC 61131-3) G-code (SMC100-A only)	
Software function supported		FoE, parameter trasfer, security pass code, VPN, data monitor	

System Configuration



EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

CONTACT US

Technical specialists are available to provide advice and assistance for controller programming.



1.800.905.7989



■ Precautions For Adoption

Failure to follow the precautions below may cause moderate injury and property damage, or in some circumstances, could lead to a serious accident. Always follow all listed precautions.

⚠ Cautions

- The products in this brochure are designed to be used with general industrial devices. Read the accompanying Instruction Manual carefully prior to using the product.
- Do not use this product in an environment where vibration is present, such as in moving vehicles or shipping vessels.
- Do not perform any retrofitting, re-engineering, or modification to the product.
- Please contact us beforehand if you intend to use this product in the following applications.
- Medical equipment that may have an effect on human life.
- Systems or equipment that may have a major impact on society or on the public.
- Special applications related to aviation and space, nuclear power, electric power, submarine repeaters, etc.