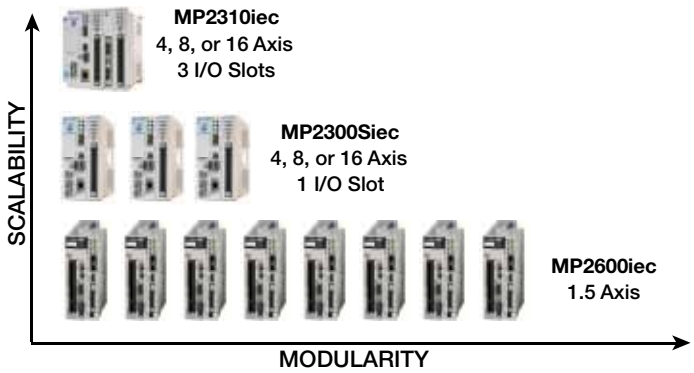
YASKAWA

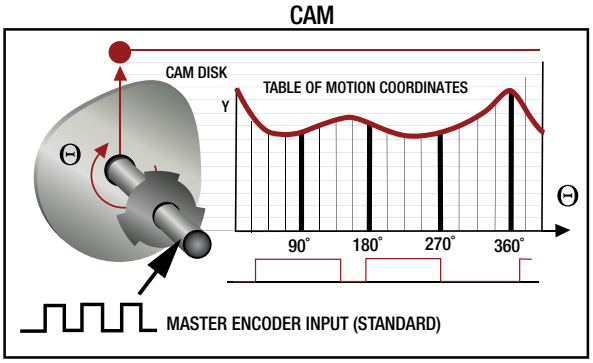
1.5 Axis Machine Controller

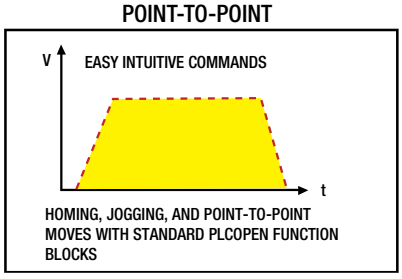
IEC on the Drive
The MP2600iec is a machine controller module fully integrated into Yaskawa's latest Sigma-5 series servo amplifier.

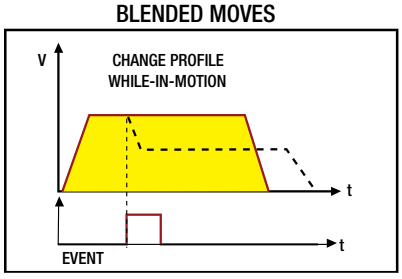
MP2600iec
IEC 61131-3 on the Sigma-5 Amplifier

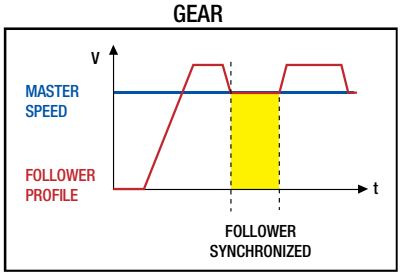
- One software platform, MotionWorks IEC, allows applications to scale up from single to multi-axis control within a standard IEC 61131-3 environment
- PLCopen Function Blocks in MotionWorks IEC simplify programming
- Diagnostic Web server reduces field maintenance time
- Optional OPC server provides HMI connectivity or Data Acquisition
- Sigma-5 autotuning and vibration suppression algorithms provide easy setup
- Wide product range of Sigma-5 (230/480 VAC from 50 W to 15 kW) allows flexible designs











YASKAWA Europe GmbH
Drives & Motion Division
Hauptstr. 185
65760 Eschborn
Germany
Tel: + 49 (0) 6196-569 300
Fax: + 49 (0) 6196-569 399
www.yaskawa.eu.com

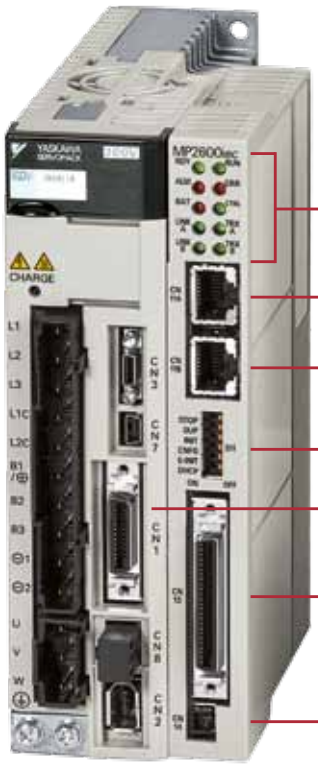
Standard Specifications

Items				Specifications
CPU				200 MHz, 32 bit, ARM 9
Memory		SDRAM		32 MB
		SRAM		512 kB with battery backup
		Flash		4 MB flash. Code and parameter storage.
Operator interface		LED		10 LEDs (red and green - operating mode, communication and error status)
		User Configuration		6x DIP switch (operating mode and communication configuration)
User I/O	Controller Side (CN13)	Network		2x 100baseTX Ethernet
		Digital input		8 programmable inputs
		Digital output		8 programmable outputs
		Analog input		1 ch., +/- 10 V, 16 bit
		Analog output		1 ch., +/- 10 V, 16 bit
		Pulse Counter		RS-422-compatible pulse counter input (quadrature, pulse and direction, and up/down counter modes) with 5, 12, and 24 V position latch inputs
	Servo Side (CN1)	Sequence Input		Number of Inputs: 7 (1 registration input latches external encoder in 5 µs)
			Allocated*	Functions: The signal allocation and positive/negative logic can be modified. Forward run prohibited (P-OT), reverse run prohibited (N-OT), forward torque limit (/P-CL), reverse torque limit (/N-CL), general-purpose input signal (/SI0 to /SI6)
		Sequence Output	Fixed	Servo Alarm (ALM)
			Allocated*	Number of Outputs: 3
				Functions: The signal allocation and positive/negative logic can be modified. Positioning completion (/COIN), speed coincidence detection (/V-CMP), servomotor rotation detection (/TGON), servo ready (/S-RDY), torque limit detection (/CLT), speed limit detection (/VLT), brake (/BK), warning (/WARN), near (/NEAR)
Network capability		2 Ethernet Ports (100 Mbps Autocrossover)		OPC (Client and Server required)
				Ethernet/IP
				Modbus/TCP
Programming standards				IEC 61131/PLCopen
Diagnostic and configuration interface				Web interface
Motion control performance				1 controlled axis and 1 external encoder input plus virtual axis
Servo-Side Safety Functions	Input			/HWBB1, /HWBB2: Baseblock signal for power module
	Output			EDM1: Status monitor (fixed output) of built-in safety circuit

* Allocated I/O can also be used as programmable I/O.

Modbus TCP

Σ-V



Specifications are subject to change without notice
for ongoing product modifications and improvements.
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