

<ul style="list-style-type: none"> • = Available as standard ◦ = Optional at extra cost 		Panel Mount				PC Based	Card Based		Drive-In
		MC464	MC224	MC206X	MC302X	PCI208	Euro205x	Euro209	MC302-K
# of Axes	Maximum	64	24	8	2	8	8	16	2
	Number of Stepper (Step & Direction) or Servo discrete wired	24	16	5	2	8	5	9	1 ₁
Performance	Execution benchmark (lines/mS)	278	21	19	14	20	20	20	13
	Processor	64 bit MIPS	32 Bit DSP	32 Bit DSP	32 Bit ARM	32 Bit DSP	32 DSP	32 Bit DSP	32 Bit ARM
	Clock Frequency	400Mhz	150Mhz	120Mhz	64Mhz	120Mhz	120Mhz	150Mhz	64Mhz
	Servo Update rate †	1ms-125µS	1ms-250µS	1ms-250µS	1ms-250µS	1ms-250µS	1ms-250µS	1ms-250µS	1ms-250µS
	Encoder input freq	6Mhz	6Mhz	6Mhz	6Mhz	6Mhz	6Mhz	6Mhz	1.5Mhz
	Stepper output freq	2Mhz	500Khz	2Mhz	2Mhz	2Mhz	2Mhz	2Mhz	
	User Memory	1MByte	1MByte	512Kbyte	512Kbyte	512Kbyte	256Kbyte	1MByte	120KBytes
	Maximum data table size	500,000**	250,000	32,000	16,000	32,000	32,000	32,000	4,000
	Position register precision	64Bit	32Bit	32Bit	32Bit	32Bit	32Bit	32Bit	32Bit
	Maths precision	Double Floating Point	Floating Point	Floating Point	Emulated Floating Point	Floating Point	Floating Point	Floating Point	Emulated Floating Point
Drive Interfaces	Real Time Clock	•	•						
	Stepper (Step & Direction)	◦	◦	◦	•	◦	◦	◦	•
	Servo (+/-10V & Encoder)	◦	◦	◦	•	◦	◦	◦	• ₂
	Sercos	◦	◦	◦					
	SLM	◦	◦	◦					
	CANopen	◦	◦	◦					
	Piezo ⁴	◦	◦	◦	•	◦	◦	◦	
	Panasonic RTEX	◦							
	EtherCAT	◦							
Communication	Hydraulic ⁵	◦	◦	◦	•	◦	◦	◦	
	Profibus ⁶	◦	◦	◦					
	DeviceNet	•	•	•	•	•	•	•	•
	CANopen	•	•	•	•	•	•	•	•
	USB (V1.1)	◦	•	•	•				
	Ethernet (10/100) base-T	•(10/100)	◦(10)	◦(10)			◦(10)	•(10/100)	
	Ethernet/IP	•	◦	◦				•	
	MODBUS RTU	•	•	•	•	•	•	•	•
	MODBUS TCP/IP	•	◦	◦				•	
	RS232/RS485	•	•	•	•			•	•
	CC Link	◦							RS232
	ProfiNet	◦							
Physical	Bluetooth	◦							
	AnyBus support	◦							
	Width	56mm	68mm	182mm	101mm	180mm	170mm	170mm	95mm
	Height	201mm	263mm	107mm	94mm	106mm	129mm	129mm	140mm
Feedback	Depth	155mm	197mm	53mm	48mm	15mm	25mm	25mm	20mm
	Weight	750g	750g	325g	200g	90g	170g	170g	90g
	Reference Encoder In ⁸	•	◦	•	•	◦	◦	◦	
	Resolver	◦	◦	◦					
I/O	SSI Abs encoder	◦	◦	◦‡		◦‡	◦‡	◦‡	
	EnDat Abs encoder	◦	◦‡	◦‡		◦‡	◦‡	◦‡	
	Tamagawa Abs encoder	◦	◦‡	◦		◦‡	◦	◦‡	
	Inputs 24Vdc	8	8	8	4	20	16	16	12 + 5 ⁹
	Outputs 24Vdc					10	8	8	8 + 2 ⁹
	Bi-directional I/O 24Vdc	8	8	8	4				
Expansion I/O	Analogue Inputs	• 2 x 12Bit	• 2 x 12Bit	• 1 x 10Bit		◦ 4 x 12Bit	• 2 x 12Bit	◦ 4 x 12Bit • 2 x 12Bit	• 2 x 16Bit ⁹
	Number of registration Inputs	1††	††	4	2	8	4	8	
	Registration Input Speed	1µS	1µS	200µS	200µS	200µS	200µS	200µS	
Programming	Digital bi-directional points	256	256	256	256	256	256	256	256
	12Bit ±10V analogue inputs	32	32	32	32	32	32	32	32
	16Bit 0-10V analogue option board		8	8			8	8	
Power	Multitasking Trio BASIC	•	•	•	•	•	•	•	•
	Number of Tasks ⁷	30*	14	7	3	7	7	7	3
	IEC61131	◦							
	G Code	◦	◦	◦		◦	◦	◦	
	HPGL	•	•	•	•	•	•	•	•
Expansion	DXF Import	•	•	•	•	•	•	•	•
	Supply Voltage	24Vdc	24Vdc	24Vdc	24Vdc	3.3V or 5V /24V***	5V / ±12V / 24V***	5V /24V***	5Vdc/24V***
	Consumption	625mA	800mA	300mA	150mA	480mA/1.25A Max	500mA/50mA/1A Max	500mA/1A Max	120mA/1A Max
	Max. Daughter boards		16 ⁿ	1				1	
FREE support software	Max. Expansion modules	7	3						
	Micro SD Memory slot		•**	•**				•	
	SD Memory slot	•							
	Motion Perfect 2	•	•	•	•	•	•	•	•
	TrioPC ActiveX	•	•	•	•	•	•	•	•
	MC Loader ActiveX	•	•	•	•	•	•	•	•
	Software Oscilloscope	•	•	•	•	•	•	•	•
	Autoloader	•	•	•	•	•	•	•	•
MC Simulator	•	•	•	•	•	•	•	•	
Project Encryptor	•	•	•	•	•	•	•	•	
MultiProg Express (IEC61131 IL, LD)	•								
Docmaker	•	•	•	•	•	•	•	•	
CAD2Motion (DXF Import)	•	•	•	•	•	•	•	•	
IEC61131 Runtime	◦								

1. 1 axis built into drive, second axis is encoder input or stepper output.
2. Controls the servo of the drive installed into only
3. Operates as a master, requires that the drive can synchronise to the CAN synch telegram and has a freely programmable PDO register
4. Requires servo encoder daughter board and setup of cross over offset parameters
5. Requires servo encoder daughterboard. Interface is +/-10V only no 4-20mA interface is available.
6. Operates as Profibus DP slave for 16 input and 16 output word data transfer with Profibus master.
7. Each *Motion Coordinator* has 2 fast tasks for high priority processing. Included in the number of tasks above.
8. If optional, then reduces the maximum number of axes available
9. Extra Inputs and Outputs and analogue input available from drive.
- n. Requires 3 P301 Axis Expander.
- † Servo rate per axis, based on maximum number of axes installed
- ‡ Contact Trio before specifying
- * 20 tasks available for Trio Basic, 10 for IEC61131
- ** 125,000 locations battery backed.
- *** 24Vdc supply required for I/O and CAN functionality only. Current depends on I/O configuration but figures quoted are maximum values.
- ** Requires optional P396 SD Card adapter
- †† Registration inputs are added based on daughter boards or expansion module. 2 registration inputs per Servo/Encoder daughter board.