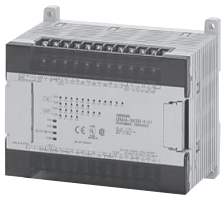
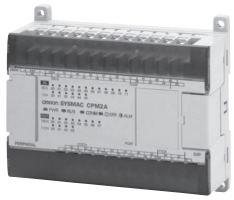
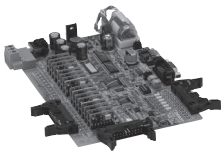
OMRON

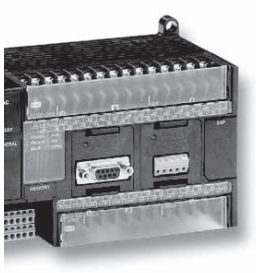
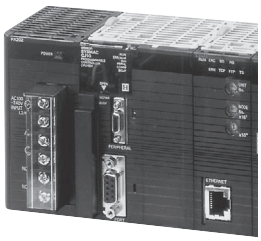
PLC Selection Table

Flexible, Fast & Efficient Solutions

Flexibility, efficiency and speed are vital factors for staying competitive in the machine building industry. Omron's Control Systems give you this competitive edge. Omron's reputation for product quality, reliability and advanced technology is inherent in all of its control systems, from the smart remote I/O and the compact CPM to the high-performance modular CJ1 and the backplane-based CS1 series.

These control systems are designed for processing speed and transparency. They provide seamless data exchange inside machines, between machines, between machines and hosts, and between machines and remote locations.

		Compact PLC series			
					
		CPM1A	**CPM2A**	**CPM2B**	**CPM2C**
Page		40	65	82	86
Built-in	**Digital I/O**	10 - 40	20 - 60	32 - 40	10 - 32
	Interrupt inputs	2 - 4	2 - 4	4	2 - 4
	Counter Inputs	1 (5 kHz)	1 (20 kHz) + 2 to 4 (2 kHz)		
	Pulse Outputs	1 (2 kHz)	2 (10 kHz)		
CPU features / option boards		Built-in AC or DC power supply 2 analog settings	Built-in AC or DC power supply 2 analog settings Removable terminal blocks Standard 2nd serial port	Optional RS-232C port / clock / battery. 12/24 V DC versions. Customised versions on demand.	DC power supply 2nd serial port via converter unit
Max. digital I/O points		10 - 100	80 - 120	168	106 - 192
Execution time (bit instruction)		0.72 - 1.72 µs	0.26 - 0.64 µs		
Program memory		2 kWords	4 kWords		
Data memory		1 kWords	2 kWords		
CompactFlash memory		n.a.			
Analog I/O		Up to 6 inputs and 3 outputs 8-bit, 12-bit resolution U, I, TC, Pt100		Up to 8 inputs and 4 outputs. 13-bit resolution U, I	Up to 4 x (2 in + 1 out) 12-bit resolution U, I, TC, Pt100
Special function units		n.a.			
Industrial networks		Serial Communications			
Fieldbus master		n.a.		CompoBus/S	
Fieldbus I/O link		DeviceNet CompoBusS PROFIBUS-DP		DeviceNet	DeviceNet CompoBus/S

Compact PLC series	Modular PLC series		Rack PLC series	
				
CP1H	**CJ1M**	**CJ1G/H**	**CS1G/H**	**CS1D**
	154	154	274	261
40	16		n.a.	
8	4		n.a.	
4 (100 kHz)	2 (100 kHz)		n.a.	
2 (100kHz) + 2 (30kHz)	2 (100 kHz)		n.a.	
Built-in AC or DC power supply 4 analog in / 2 analog out (XA model) 2 serial communication board plug-ins 1 simple analog input 1 analog setting Removable terminal blocks USB programming port	Choice of models with and without built-in I/O Ethernet CPU (3 models)	Loop control CPU (4 models)	2 Serial Ports Loop Control Board	Loop Control Board Duplex CPU, Power Supply and Communications
320	160 - 640	960 - 2560	960 - 5120	5120
0.1 µs	0.1 µs	0.04/0.02 µs	0.04/0.02 µs	0.02 µs
20 kSteps	5 - 20 kSteps	10 - 250 kSteps	10 - 250 kSteps	60 - 250 kSteps
32 kWords	32 kWords	64 - 448 kWords	64 - 448 kWords	128 - 448 kWords
n.a.	Up to 64 MB		Up to 64 MB	
Up to approx. 30 inputs/outputs (8, 13, 14-bit resolution U, I, TC, PT100)	Up to 20 x 8 points 12 bit resolution U, I 15 bit resolution TC, Pt100, Pt1000 inputs	Up to 36 x 8 points 13-bit resolution U, I, 15-bit resolution TC, Pt100, PT1000 inputs	Up to 80 x 8 points, 13 bit resolution or 80 x 4 points, 16 bit resolution U, I, TC, Pt100, process I/O	Up to 75 x 8 points, 13 bit resolution or 75 x 4 points, 16 bit resolution U, I, TC, Pt100, process I/O
Temperature Control Protocol Macro RFID Sensor Unit	Temperature Control High-speed counters (500 kHz) SSI encoder input Position Control Protocol Macro RFID sensor Unit		Temperature Control SSI encoder input High-speed counters (500 kHz) Position Control Motion Control Process Control Protocol Macro	
Ethernet (100 BASE-Tx) Controller Link Serial Communications	Ethernet (100 BASE-Tx) Controller Link Serial communications		Ethernet (100 BASE-Tx) Controller Link Serial communications	
DeviceNet CAN PROFIBUS-DP CompoBus/S	DeviceNet CAN PROFIBUS-DP CompoBus/S		DeviceNet PROFIBUS-DP CAN / CANopen CompoBus/S	
DeviceNet PROFIBUS-DP CAN	DeviceNet PROFIBUS-DP CAN		DeviceNet PROFIBUS-DP CAN / CANopen	