

Entry-level controllers with full-size power

Lean and mean - Omron's innovative entry-level CPUs have all the power of a modular PLC system, but without the associated cost. Ideal for small applications where speed and flexibility are required.



Advanced Industrial Automation

Consistent family concept

Driven by the machine control requirements of our customers, we have ensured that the CJ1M-CPU11/21 uses the same single programming software – CX-Programmer – that all Omron PLCs use. We have also ensured that the same powerful debugging functions are included to minimise your programming effort. With this task-based software you can simplify programming by splitting projects into modules with cyclic tasks and interrupt tasks. The CJ1M-CPU11/21 supports standard Compact Flash memory as an option for easy backup and exchange of data and programs.

**ACTUAL
SIZE**

Lowering the threshold

To further expand the CJ1- series, Omron introduces the CJ1M-CPU11 and the CJ1M-CPU21, CPUs that offer the best price/performance ratio available today. The CJ1M-CPU11/21 packs the same punch as the other CPUs in the family but with a minimum of overhead, making it ideal for applications where the processing power is required but not all the memory and I/O capacity. Of course, the CJ1M-CPU11 has the complete instruction set of the larger CPUs, and can provide powerful functions for sequencing, data processing, arithmetic and control. The CPU21 version offers all of the features of CPU11 and includes built-in I/O functionality.

Compact and expandable

The built-in I/O with four interrupt inputs, two fast (100 kHz) counters and pulse train outputs (CPU2x) provides excellent performance for position control. To further expand the CJ1M-CPU11/21, you can connect it to all existing CJ1-series units, even installing up to ten powerful I/O and special function units such as communication, control, or analog and digital I/O units. And if you run out of power or capacity with the CPU11/21, you can easily replace it by another CJ1 CPU, with capacities up to 120 kSteps program memory, 2560 I/O points and down to 20 ns binary execution time. One PLC family is all you need.



Open for communication

The CJ1M-CPU11/21 follows in the footsteps of the other members of the CJ1 family by offering seamless communications over a wide range of open-standard networks (Ethernet, PROFIBUS-DP, Device Net), cost-effective proprietary networks (ControllerLink, CompoBus/S), or fully user-configurable serial or CAN-based systems. And, as with all CJ1 CPUs, it comes with two serial interfaces as standard.

Standard or customised

The CJ1-series has grown, adding even more choice and flexibility. The CJ1 PLC family currently offers 12 distinct CPU models and over 60 types of expansion units, and is functionally compatible to the rack-based CS1-series PLCs. Naturally, Omron is always at your service if you should need a non-standard solution. We have a European development and customisation department that is always ready to quickly respond to your needs.

CJ1M CPU units

Description	Digital I/O capacity	Program capacity	Data memory	Bit instruction execution time	Built-in I/O	Model
CJ1M-CPU unit with built-in I/O	640 points (with 1 expansion rack)	20 kSteps	32 kWords	100 ns	10 in + 6 out, including high speed counters and pulse outputs	CJ1M-CPU23
	320 points	10 kSteps				CJ1M-CPU22
	160 points	5 kSteps				CJ1M-CPU21 (new)
CJ1M1-CPU unit	640 points (with 1 expansion rack)	20 kSteps			n.a.	CJ1M-CPU13
	320 points	10 kSteps				CJ1M-CPU12
	160 points	5 kSteps				CJ1M-CPU11 (new)

INDEPENDENT DISTRIBUTOR SALES

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For further information please contact OMRON on one of the following, or complete and fax back the form.

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