

Accept no compromise

The latest versions of Omron's CJ1 and CS1 PLCs offer speed and ease of use; Function Block programming without compromise.



One architecture

Omron's CJ1 and CS1 PLC families are both based on a single core architecture. Whereas the modular CJ1 range offers compactness and the ultimate in scalability, the CS1 rack PLCs provide a wide range of advanced control units and dual-redundancy options. Thus both ranges complement each other perfectly.

What both families have in common is a reputation for reliable, high-speed control. The new Version 3 CPUs add IEC 61131-3 compatible Structured Text programming in user-defined Function Blocks, thus increasing code reusability and improving programming efficiency. All CPUs now support this as standard, without the need to install extra memory, or to buy additional software. And without compromising control performance.

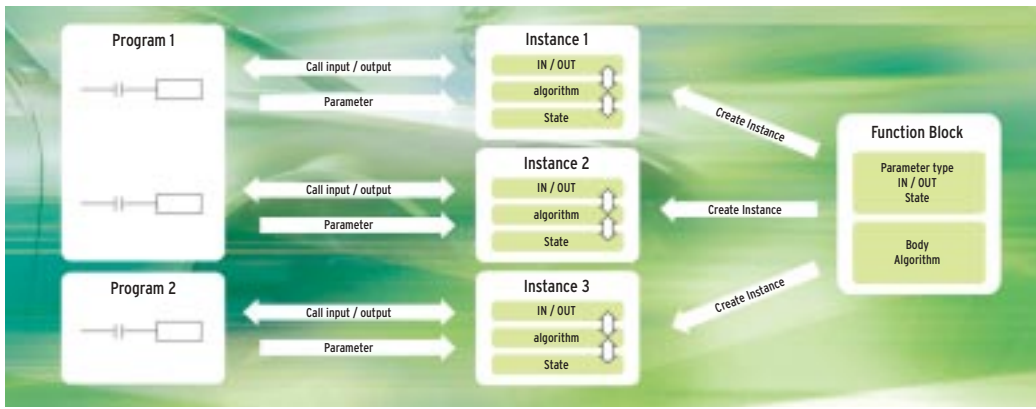
One control engine

Conventional ladder programming is efficient and fast for sequence control tasks, but code portability is limited. And in conventional PLC systems, Structured Text programming and user-defined Function Blocks offer more flexibility, but often at extra

cost, and with reduced performance. A unique new hardware architecture based on Omron's Multi-lingual Control Engine takes away this dilemma. It is built in at the heart of all CJ1 and CS1 PLCs, and supported by the latest version of Omron's universal PLC programming software, CX-Programmer.

Smart Platform

As the new CPUs are backward-compatible with the preceding models, existing users can seamlessly migrate to the new architecture without changing a single line of code. But Omron's continuously expanding library of pre-tested Function Blocks will make programming the new systems easier than ever. Combining PLCs with temperature controllers, smart sensors, motion controllers or vision systems will become plug-and-work configuration. This significantly reduces the time required for engineering, commissioning and maintenance. The transparent communication architecture of Omron's Smart Platform will provide a fully integrated development environment, from sensor to actuator.



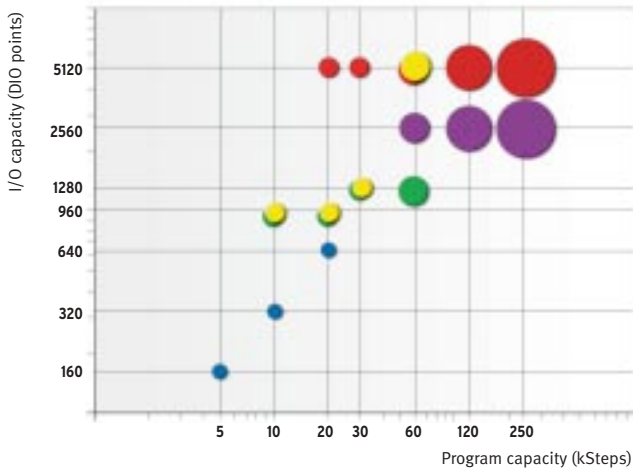
Key features of the CJ1/CSI PLC range

- One architecture
- One control engine
- One software
- One instruction set
- Open networking
- Wide range of capacities
- Structured Text programming
- Function Block Libraries

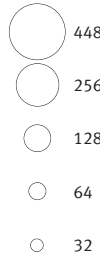
Whereas most PLC manufacturers rely fully on processing Function Blocks in firmware, Omron have developed a core component, which greatly reduces software overhead for Function Block data management.

Although each Function Block is only defined once, each Function Block call from the main program requires a new instance to be created, and parameters and I/O data to be retrieved. After execution, the processed data needs to be returned, and the status needs to be stored for the next execution of the instance. Omron's Multi-Lingual Control Engine autonomously handles the transfer of all data to and from the function block. The result: More efficient programming without losing performance!

There is always a CPU to fit your needs



Memory capacity in kWords



	Max. I/O capacity (digital I/O points)	Program capacity (kSteps)	Memory capacity (kWords)	Execution time, binary instructions (ns)	Number of models
CS1H series	5120	20 – 250	64 – 448	20 ns	5
CS1G series	960 – 5120	10 – 60	64 – 128	40 ns	4
CJ1H series	2560	60 – 250	128 – 448	20 ns	3
CJ1G series	960 – 1280	10 – 60	64 – 128	40 ns	4
CJ1M series	160 – 640	5 – 20	32	100 ns	3 basic 3 with pulse I/O 3 with Ethernet port

OMRON EUROPE B.V. Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. Tel: +31 (0) 23 568 13 00 Fax: +31 (0) 23 568 13 88 www.europe.omron.com

Austria
Tel: +43 (0) 1 80 19 00
www.omron.at

Finland
Tel: +358 (0) 9 549 58 00
www.omron.fi

Italy
Tel: +39 02 32 681
www.omron.it

Portugal
Tel: +351 21 942 94 00
www.omron.pt

Switzerland
Tel: +41 (0) 41 748 13 13
www.omron.ch

Belgium
Tel: +32 (0) 2 466 24 80
www.omron.be

France
Tel: +33 (0) 1 56 63 70 00
www.omron.fr

Netherlands
Tel: +31 (0) 23 568 11 00
www.omron.nl

Russia
Tel: +7 095 745 26 64
www.omron.ru

Turkey
Tel: +90 (0) 216 474 00 40
www.omron.com.tr

Czech Republic
Tel: +420 234 602 602
www.omron.cz

Germany
Tel: +49 (0) 2173 680 00
www.omron.de

Norway
Tel: +47 (0) 22 65 75 00
www.omron.no

Spain
Tel: +34 913 777 900
www.omron.es

United Kingdom
Tel: +44 (0) 870 752 08 61
www.omron.co.uk

Denmark
Tel: +45 43 44 00 11
www.omron.dk

Hungary
Tel: +36 (0) 1 399 30 50
www.omron.hu

Poland
Tel: +48 (0) 22 645 78 60
www.omron.com.pl

Sweden
Tel: +46 (0) 8 632 35 00
www.omron.se

For the Middle East, Africa and other countries in Eastern Europe, Tel: +31 (0) 23 568 13 00 www.europe.omron.com

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