

Ethernet Integrated

Omron's smallest modular PLC offers an economical way to connect to 100 Mbit/s Ethernet networks for seamless and smart distributed control.



Advanced Industrial Automation

Speed and Transparency

Up to 255 nodes can be linked using secure connection-based TCP/IP data communication with Omron's proven industrial FINS protocol on Ethernet. Compared to conventional serial connections, the Ethernet interface greatly increases communication speed for PLC programming, commissioning and monitoring.

CJ1 is a key component in Omron's Smart Platform concept. The transparent message routing built into the CJ1 system provides direct access to devices connected to the PLC by serial data links, Controller Link or DeviceNet networks. No PLC programming is required to transfer data between Ethernet and any other network.

Ethernet for all

Communication over Industrial Ethernet networks has so far been restricted to high-end PLC models. Omron lowers the threshold for truly distributed control using 100 Mbit/s Ethernet with the introduction of 3 new CPU models in the CJ1M-range.

The 100BASE-TX Ethernet interface integrated in the new CJ1M CPUs adds a high-speed, reliable network connection to the existing 2 serial ports. You can connect the PLC to Ethernet networks, whilst retaining the possibility to make serial data links to existing peripheral devices.

Easy Access and Setup

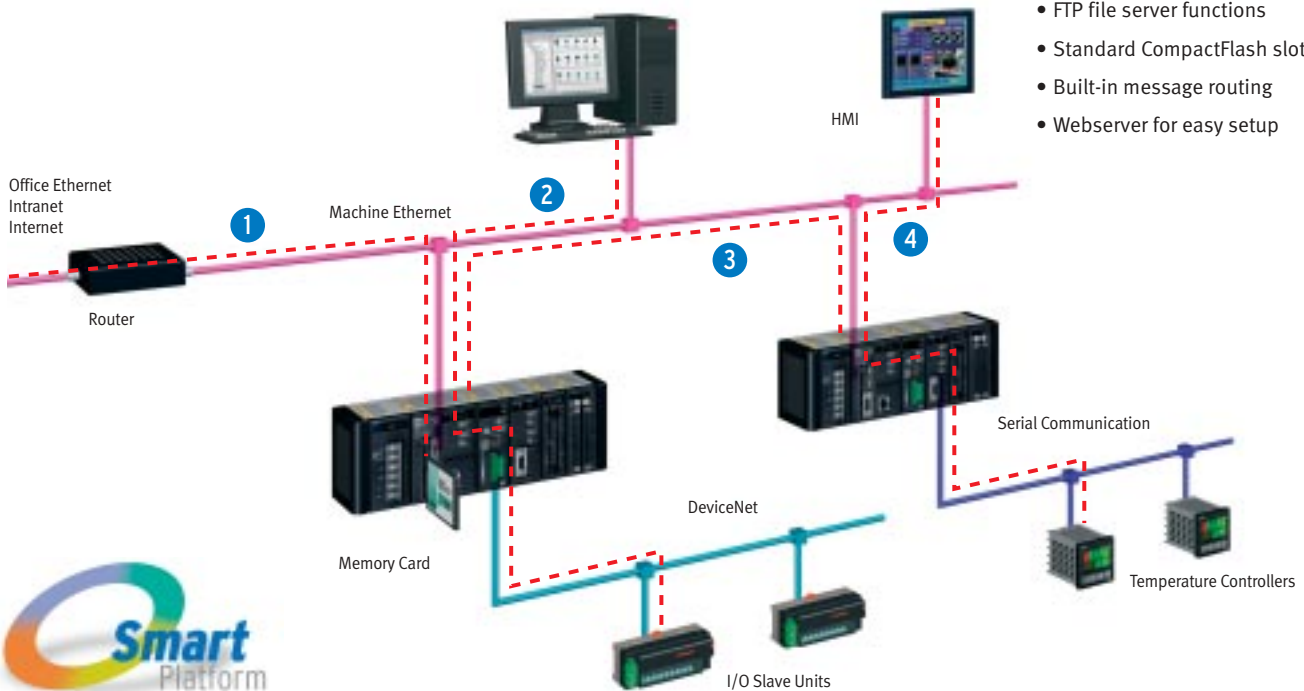
The FTP server functions provide simple access to data stored on a standard CompactFlash Card which can be used in any CJ1 CPU. Programs, settings, or log files can easily be transferred to or from PCs across Ethernet networks.

Configuration of the CPU's Ethernet functions can be done with CX-Programmer - Omron's universal programming software for all PLCs, or through the unit's built-in webserver with HTML setup pages.

The new CJ1M Ethernet CPUs: Omron's Smart Platform at work.

Transparent message routing for program-free access to field devices and easy, fast data exchange over Ethernet.

- 1 Access programs, parameter data or log files stored on CompactFlash memory cards, also from external networks through routers.
- 2 Directly display preventive maintenance data from smart DeviceNet slaves, independent of the control I/O data exchange with the PLC.
- 3 Exchange live data between controllers with read and write commands using TCP/IP connections or UDP broadcasts.
- 4 Monitor process data from field instruments connected through serial communication, without any PLC programming.



Ordering information

Model	CJ1M-CPU13-ETN	CJ1M-CPU12-ETN	CJ1M-CPU11-ETN
Description	CJ1M CPU unit with Ethernet port		
Digital I/O capacity	640 Points	320 Points	160 Points
Max. I/O Units (any type)	20 Units (with 1 expansion rack)	10 Units	10 Units
Program capacity	20 kSteps	10 kSteps	5 kSteps
Data memory	32 kWords		
Bit instruction execution time	100 ns		
Communication ports	1 Mini-Peripheral+RS-232C combined + 1 RS-232C + 1 Ethernet 100BASE-TX		

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