Omron’s Compact, Modular CJ2H Programmable Automation Controller Offers Built-in EtherNet/IP Communications and Common Tag Database Programming To Provide OEM Machine Builders With A Significant Competitive Edge

SCHAUMBURG, IL (November, 2008)— Omron Industrial Automation (www.omron247.com) has introduced the CJ2H high-speed controller series to help OEM machine builders migrate to open, flexible and cost-effective multi-disciplined automation platforms. Omron’s CJ2H programmable automation controller (PAC) and their CX-One Integrated Software Tool Package version 3.0 offers the capability to handle motion, process, and logic control, as well as process simulation and network configuration, all in a single package that adheres the ARC Advisory Group’s PAC definition. Offering built-in EtherNet/IP interoperability and time-saving common tag database programming stored in the CPU memory, the CJ2H PAC enables machine builders to communicate efficiently using EtherNet/IP tag data links to legacy systems from other manufacturers, thus extending the life cycle of those legacy products. This new series of PAC CPUs are fully compatible with Omron’s range of existing CJ1 modules for motion control, process control, RFID, logic and networking. The CJ2H PAC’s modular rack-less design enables easy configuration and lowered hardware costs, saving the OEM machine builder significant time and cost. The CJ2H’s fast processing speeds and large memory capacity help deliver faster production and higher throughput, thus increasing the machine’s Overall Equipment Effectiveness (OEE). The common tag database programming, hundreds of pre-built pre-tested Function Blocks, and built-in simulation help machine builders achieve faster development time and shorter time to market, providing the OEM machine builder with a significant competitive edge.

“Today’s leading packaging operations are helping manufacturers reduce working capital, lower inventory, quicken replenishment, and improve asset utilization”, according to Craig Resnick, Research Director, ARC Advisory Group. “In today’s competitive global environment, packing and packaging operations are the differentiators for product innovation, brand building, channel expansion, and margin growth. Innovative packaging machines that leverage automation platforms such as Omron’s CJ2H PAC help manufacturers to drive new products to market, improve quality and safety, lower unscheduled downtime due to normal and abnormal operations, enable measurement of key performance indicators (KPIs) such as OEE, perform continuous online quality assurance, and enable integration with other operations such as production management, order processing, billing, warehousing and shipping.”

The CJ2H PAC CPU’s offer built-in EtherNet/IP networking, and high-speed, high-capacity data exchange between other PAC’s, PLC’s, HMI’s and I/O devices. EtherNet/IP can be leveraged to perform both information (explicit messaging) and control (implicit messaging) networking, sharing up to 184,832 words over 256 nodes. The PAC’s CPU program memory capacity ranges up to 400K Steps, data memory ranges up to 800K, while Function Block Program, Symbol, and Comment Memory capacity is 3.5MB, which is well suited for OEM machines. The CPU’s large memory allows for more versatile programs, and well-documented programs make troubleshooting easier and faster, saving significant maintenance time and cost.

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OEM machine builders need for a common powerful tool is addressed with the Microsoft Vista™-compatible CX-One single software package that includes all five IEC 61131-3 programming languages and supports both current and legacy Omron PLC platforms. The CX-One single software package programs PAC’s and PLCs, designs and links HMI projects, provides parameters for motion and process controllers, configures communication networks, and completely simulates control systems without hardware. It allows a single point of access across networks connected via the PAC or HMI for troubleshooting and resetting, thus eliminating delays in responding to a fault while a laptop loaded with the appropriate software packages and special cabling is brought to the site. With the CX-One single software package, machine builders are able to lower their initial cost by having only one product to purchase, learn and update. Omron simplifies maintenance by allowing replacement modules to be inserted (Plug & Work) without having to match the CPU’s firmware revision with each individual module’s firmware revision as many manufacturers require. The CX-One single software package also contains program migration utilities for Omron’s legacy series dating back over 20 years to retain the value invested in engineering and programming, extending a machine’s life cycle and lowering its total cost of ownership.

In accordance to the ARC definition of a PAC, CJ2H CPU Units have a built-in tag name server to manage tag names and I/O addresses to support standard Tag Based Programming. This capability enables access from external devices using tag names without the user needing to know the I/O addresses. The Common Tag Database between the PAC and HMI requires less design time, as HMI screen data and PAC programming can be developed in parallel, greatly reducing development cost and time. OEM machine builders can connect their CX-One single software package with standard USB or Ethernet cables to their CJ2H PAC’s USB and EtherNet/IP ports, thus eliminating the need for special cables or connectors.

To further shorten OEM machine builder’s time-to-market, Omron delivers 100% tested and burned-in CPUs and modules. This virtually eliminates start-up failure out of the box to keep production on schedule, and also lowers maintenance costs for the OEM machine builder’s end customers.

The CJ2H CPU’s and CX-One software are available from stock. For further information, contact: Omron Electronics LLC, 1 Commerce Drive, Schaumburg, IL 60173. Tel.: 866-88-OMRON. Fax: 847-843-8081. Internet: www.omron247.com.

Omron Electronics LLC is a leading global manufacturer of industrial automation products focused on sensing and control technologies. We serve OEM machine builders and end users with a wide range of products that integrate easily into complete automation solutions, offer simple connectivity, and are backed by solid support services. Our extensive product groups include programmable controllers, servo motors and drives, operator interfaces, temperature controllers, sensors, inspection and machine vision systems, RFID track and trace systems, and software. Omron Electronics LLC is the Americas subsidiary of Omron Corporation, a $7 billion global leading supplier of reliable, advanced electronics and control system components and services celebrating 75 years of success.

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