Cannon Automata’s products quality is a matter of fact. Products are capillary tested one by one. Thanks to a fully equipped environmental test chamber, each solution implemented is subjected to the most rigorous stress conditions and to electrical, environmental and life cycle screening. A sophisticated simulator also allows a true reflection of the system behaviour that could be tested at the factory.
Automata family PAC (Programmable Automation Controllers) is developed, designed and manufacture to satisfy every customer needs of industrial market. Products with maximum reliability, performance, modularity, and high integration with third-party components and solutions.

Cannon Automata controllers are a powerful solution, easily integrated and designed not only to perform traditional automation tasks, but also to solve complex problems that require sophisticated control algorithms, development of highly integrated signals, using different communication interfaces.

The PAC family includes the embedded control F6, the flexible solution F3 with different modules blocks, & the full-integrated A2 & K1 with a variety of communication interfaces and mini-PCIe express slot. All supplied with a software suite for logic programming.
**F3 PAC HIGHLIGHTS**
- High scalability Intel®-Atom™ CPU
- Multi bus
- Local and remote I/O's
- HMI interface
- PC interfaces
- IEC-61131 & Motion

**A2 PAC HIGHLIGHTS**
- High scalability with Intel®-Atom™-up to core i3 and i5 CPU
- Multi bus fully integrated
- Local and remote I/O's
- HMI interface
- PC interfaces
- IEC-61131 & Motion

**F6 PAC HIGHLIGHTS**
- ARM CPU
- Multi bus
- Local and remote I/O's
- Embedded applications
- PC interfaces
- IEC-61131 & Motion

**K1 PAC HIGHLIGHTS**
- ARM CPU
- Multi bus
- Integrated I/O's
- Embedded applications
- PC interfaces
- IEC-61131 & Motion
HMI family interface proposed by Cannon Automata, has capacity, features and flexibility to meet different needs easily integrating and adapting to various working environments.

The display system is perfect and suitable to provide an overview on the state of the machine or of the entire system. Operator panels can be configured in different solutions: Panel PC, Remote Panel, Monitor for A2 & F3 PAC.

The capacitive multi-finger touch sensor allows to support all gestures well-know from smartphones and tablet-pcs with an intuitive user friendly interfaces.

The resistive touch sensor panels are ideal for harsh conditions.

The HMI can be easily integrated with the programming platform, visualization and remote maintenance to simulate, monitor and manage the device through a remote view.

Available in different size.
L1 PANEL HIGHLIGHTS
- Available in different sizes
- Multitouch screen
- Landscape or portrait mode
- 4 different operation modes (Panel PC, Remote Panel, Monitor for A2 & F3 PAC)
- XD panel interface-long distance up to 100 m long cable for video touch, USB and power
- Front-USB-Port & integrated RFID Reader

C1 PANEL HIGHLIGHTS
- Available in different sizes
- Resistive & capacitive touch screen
- Landscape or portrait mode
- 4 different operation modes (Panel PC, Remote Panel, Monitor for A2 & F3 PAC)
- XD panel interface-long distance up to 100 m long cable for video touch, USB and power
- Front-USB-Port & integrated RFID Reader

F3 PANEL HIGHLIGHTS
- Available in different sizes
- Resistive Touch Screen
- Landscape or portrait mode
- DVA interface & Single standard DVI cable for easy connection for A2 & F3 PAC
- Front-USB-Port
Cannon Automata I/O’s modules are versatile systems, easy to integrate and with a wide range of solutions: Digital I/O, Analog I/O, Digital Power, Encoders Counter, Motor Drive and Wireless communication. The range of available gateway modules permits the connection with various fieldbuses type (CAN, Modbus, EtherCat & Sercos). High modularity and free combination modules offer cost-saving installations and an easy debug activity. The I/O’s are directly integrated to the control system or can be extended to remote locations, allowing to capture all parameters of the system concerning the automation process and machine control.
F3 I/O MODULES HIGHLIGHTS
- Fieldbus Coupler (SERCOS III-CAN bus-ModBus)
- Analog Input/Output
- Digital Input/Output
- Digital power Output
- Encoder Counter
- Temperature
- Fieldbus Sercos Ethercat bridge
- Communication

DATA MANAGER HIGHLIGHTS
- 3G USB Modem for industrial applications
- HSPA 3G engine for high speed data transfer
- Bidirectional operations
- Alarms via SMS
- Full software integration Driver & CoDeSys Library

STEP AND MOTOR HIGHLIGHTS
- Sercos® or EtherCAT® drive profile
- Positioning mode
- Operation with or without encoder
- Onboard I/O’s
- 2-phase stepper motor interface
SOFTWARE
A COMPLETE TOOL TO SUPPORT EVERY NEED FOR CONTROL, MANAGEMENT AND INTERFACE.

Automata Desktop is the Cannon Automata’s Programmable Automation Suite, a working platform suitable for developing complete solutions for industrial automation and for all steps of machine and system design. This solutions allows to configure in a unique environment the project phases: Programming (Control), Visualization (HMI), Project Management, Remote View, Tools (Alarms, Trends & Recipes) and Cloud. Automata Desktop allows optimizing investments in software, reducing training and getting benefits in development.
**PLC Runtime CoDeSys**

- Object programming and design in compliance with 61131-3
- Programming tools applicable for industrial controllers under Windows
- Native machine code for all common processors

- Possibility to exchange data between different PLC
- Programming languages: ladder, functional block, structured text, instruction list, sequential functional chart

**Visualization Highlights**

- HMI runtime WML
- Easy and immediacy tool
- Standard graphic functions

- Flexible data management
- Multi-language selection

**Project Management Highlights**

- Project System Manager
- Multiple projects management
- Communications settings

- Modem settings
- Security configuration

**Cloud Highlights**

- High scalability and performance service

- Easy access to operational data
- Simple manage of IT infrastructure

**Soft Motion Highlights**

- Tool for drive technology simple movements of axes to complex CNC
- Predefined function blocks of IEC 61131-3: PLC Open, CAM, PLS and 2½ axis CNC control

- Easy configuration of fieldbus interfaces, axis group and drives

**Remote Highlights**

- Emulator & Debug
- Supervisor Monitoring

- Remote control

**Tools Highlights**

- Alarms
- Recipes

- Safety
- Trends
Products that have the ability to connect openly with various communication interfaces, is an essential and fundamental aspect for the automation world. Cannon Automata develops solutions that use the most used communication interfaces as CAN, Modbus, EtherCAT and SERCOS; especially for the last one, which over the years we have acquired the role of world leader for components and its implementations in “devices” third parts.
As part of a group, Cannon Automata plays an international role in several countries. Two headquarters, Italy and Germany, two branch offices, China and Brazil and a network of sales representatives and technical assistance agencies around the world, directly manage local projects, ensuring a fast and prompt response to their respective geographical areas. Important requirements for a range of products and services that go beyond simply creating and delivering high performance solutions. The sales and service network of Cannon Group is further expanded around the world, ensuring direct contact points in Africa, America, Europe, Oceania and East.
APPLICATIONS

Hardware and software solutions for specific user applications.

Every industrial automation sector can find a valuable partner in Cannon Automata. Thanks to the join of hardware, software and skills acquired over the years, Cannon Automata proposes to market applications designed to meet various market needs.

www.cannonautomata-applications.com

ENGINEERING

Services for engineering projects.

35 years of experience in the automotive, energy, oil & gas and water treatment sectors enable Cannon Automata to present itself as complete and perfect partner for the development of industrial engineering and process projects.

www.cannonautomata-engineering.com

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