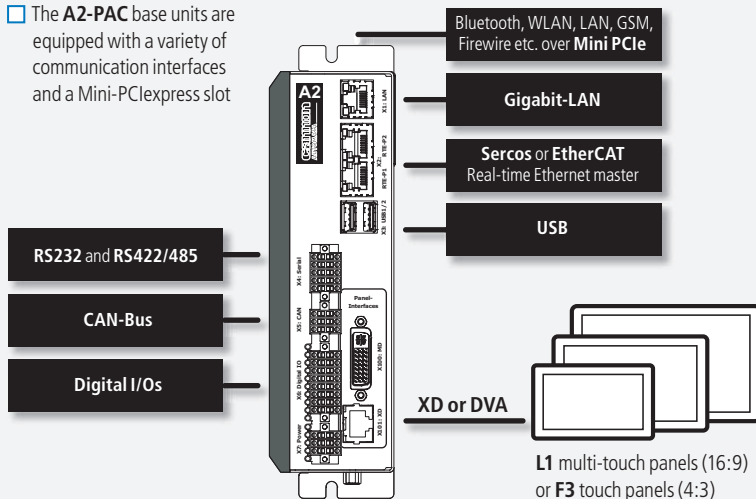


A2

Programmable Automation Controller

□ The **A2-PAC** base units are equipped with a variety of communication interfaces and a Mini-PCIexpress slot



- Intel® Atom™ up to Core™-i CPUs
- Sercos® or EtherCAT® Master Interface
- CAN and Onboard I/Os
- additional Onboard-CPU
- programmable with CoDeSys IEC 61131-3 or C/C++

The **A2-PAC** device family combines the advantages of PC-based controls with the typical features of PLCs and motion controller.

The basic version is equipped with an Intel® Atom™ dual-core CPU. With the alternatively available Core-i CPUs, also the most demanding control and visualization tasks can be realized.

Despite its extremely compact size, all **A2-PAC** base units offer a variety of communication interfaces. In addition to the typical PC interfaces such as Ethernet, USB, HDMI additional interfaces for use as a machine or system control are available.

The real-time Ethernet interface supports **Sercos** and **EtherCAT**, each as a master or slave. Also already onboard available are CAN and digital I/Os. These interfaces can either be addressed by the system CPU over PCIe or a second onboard CPU. In this configuration the data exchange with the system CPU is done over a fast dual-port RAM interface.

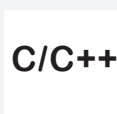
The **A2-PAC** base units are programmed with **CODESYS IEC 61131-3** or **C/C++**. The standard operating system is **Windows® CE**. Other operating systems are available on demand.



□ Panels can be connected with the **A2-PAC** base unit over a single cable for video, touch, USB and power up to a distance of 100 m.

sercos
the automation bus

EtherCAT



Technical Information		A2 - Programmable Automation Controller
CPU		Intel® Atom™ up to Core™-i-CPU
RAM		DDR3 (1 GB or greater), 512 kB NVRAM (MRAM), 8 MB SRAM for optional Onboard-CPU
Ports	Serial	1 x RS232, 1 x RS422/RS485 (adjustable over hardware switch)
	USB	2 x USB over Type-A connector, 1 x USB over DVA connector
	Ethernet	1 x 10/100/1000 MBit/s Ethernet
	Kbd/Mouse	over USB
	Video & Panelinterf.	1 x HDMI, 1 x XD-Panelinterface, 1 x DVA-Panelinterface
	Mini PCIe	Expansion slot (e.g. LAN, WLAN, Bluetooth, further field buses, external SATA interface, GSM-Modem, etc.)
Storage		mSATA (2 GB or greater), SD-Card slot
Field buses		1 x RT-Ethernet with 2 x RJ45 for Sercos or EtherCAT, each master or slave, 1 x CAN (optional over additional Onboard-CPU)
Onboard I/Os		4 x DI (24V DC), 4 x DO (0,5 A)
Dimension	H x D x W	175 x 120 x 55 mm
Power supply		24VDC
Cooling		passive
Housing		metal
Mounting		wallmount
Operating temperature		0°C ÷ +55°C
Protection class		IP20
Operating system		Windows® CE, Windows® Embedded, Linux (others on demand)
Software		CODESYS IEC-61131, CODESYS target visualization, WML (Automata SCADA software) (others on demand)
Certifications		CE, RoHS, UL

PRODUCTS

Technological components for industrial automation.



- ✓ PAC - PROGRAMMABLE AUTOMATION CONTROLLER
- ✓ I/O MODULES
- ✓ AUTOMATION SOFTWARE
- ✓ FIELDBUS & INDUSTRIAL ETHERNET
- ✓ HMI - HUMAN MACHINE INTERFACE
- ✓ DRIVES

APPLICATIONS

Hardware and software solutions for specific user applications.



- ✓ REMOTE MONITORING & ASSISTANCE
- ✓ ENVIRONMENTAL MONITORING
- ✓ PREVENTIVE MAINTENANCE
- ✓ MACHINE CONTROL & PRODUCTION
- ✓ MOTION & ROBOTICS
- ✓ ENERGY EFFICIENCY

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. Systems are characterized by their high performance, thanks to an approach that is fully oriented to achieve tailored solutions to specific needs.

For the best results in terms of quality and customer satisfaction, Cannon-Automata follows an operative scheme that is widely experienced and successful, from the study to the implementation, and with a constant technical support.



Cannon
AUTOMATA

Automata GmbH & Co. KG

Gewerbering 5
D-86510 Ried
Tel. +49 (0) 82 33 / 79 16 0
Fax +49 (0) 82 33 / 79 16 99
sales.de@cannon-automata.com

Automata S.p.A.

Via G. Carducci, 705
I-21042 Caronno Pertusella (VA)
Tel. +39 02 9639970
Fax +39 02 96399731
sales.it@cannon-automata.com

www.cannon-automata.com