

# A2 Programmable Automation Controller



# fast • versatile • compact

Box-PC with Real-time Ethernet Master and innovativ Panel Interface

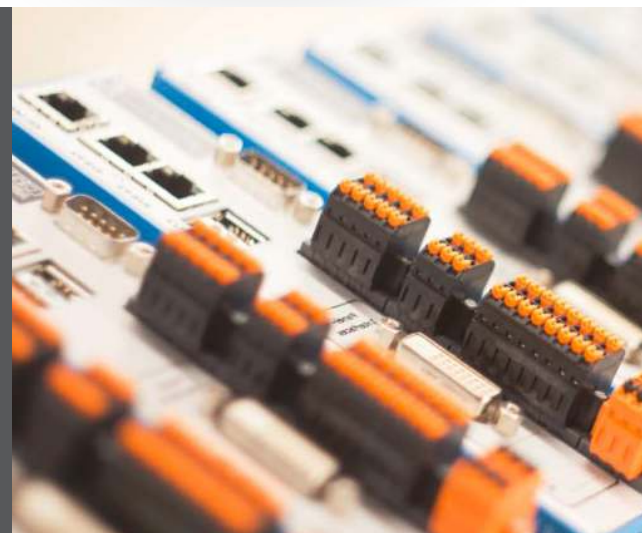
- Intel® Atom™ to Core™-i CPUs
- EtherCAT® or Sercos® Master Interface, CAN
- XD- or DVA Panel Interface for L1/C1 Panels
- CODESYS IEC 61131-3



The A2-PAC device family combines the advantages of a PC-based controller with the typical characteristics of a PLC and a motion controller.

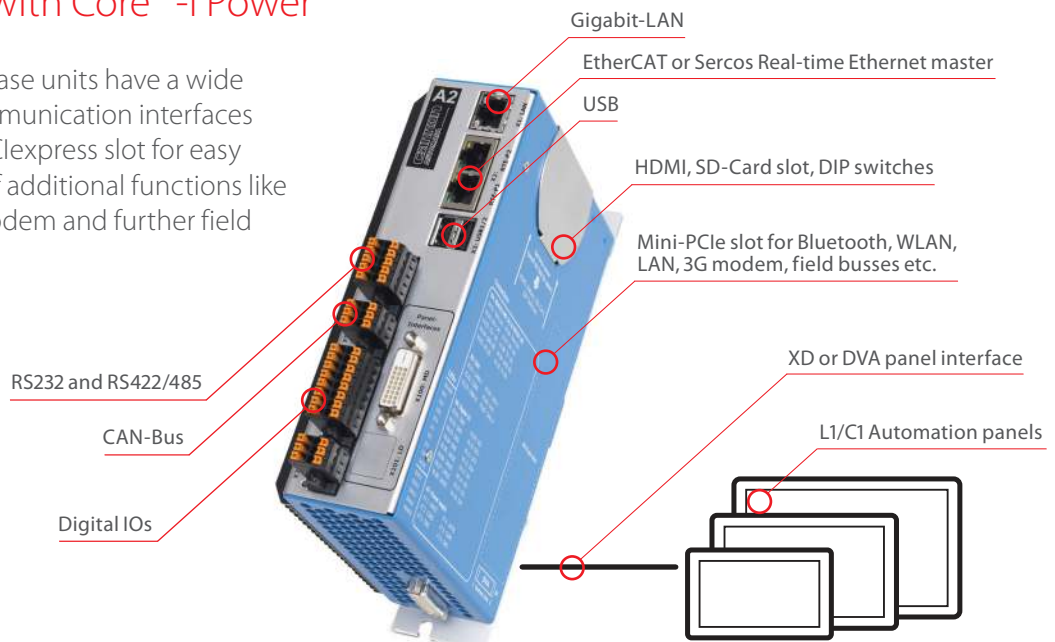
Powerful Intel® Atom™ Multi-Core and Core™-i CPUs allow the realization of the most demanding control and visualization applications.

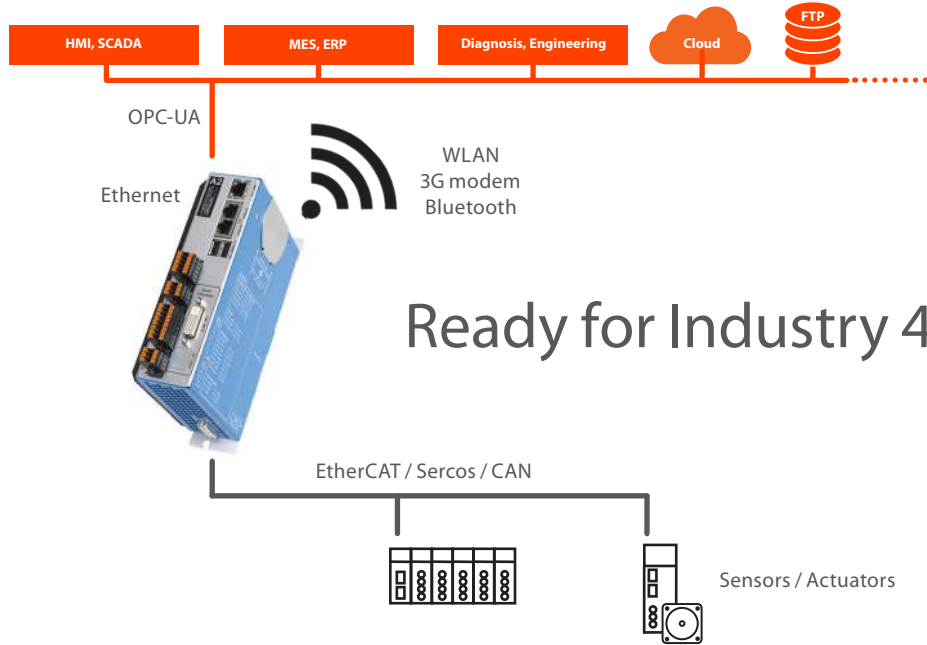
Ready for Industry 4.0 - various communication interfaces, supported by standardized protocols and functional libraries, enable easy integration into SmartFactory structures.



## »» Versatile with Core™-i Power

The A2-PAC base units have a wide range of communication interfaces and a Mini-PCIexpress slot for easy integration of additional functions like WLAN, 3G modem and further field busses





## Ready for Industry 4.0

### Control and Visualization

The A2-PAC base units are programmed with CODESYS in the common IEC 61131-3 languages. This proven engineering tool is also used to create visualizations.

The integrated OPC-UA server allows ERP, MES and SCADA systems the access to application data and serves as an interface for M2M communication.

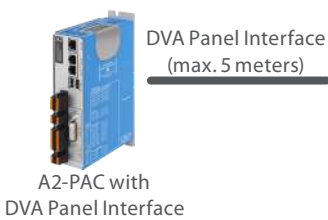
Qt is available for the realization of graphical user interfaces. This graphics library can be used in combination with CODESYS PLC programs or applications programmed in C/C++.



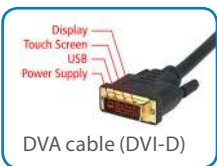
C/C++



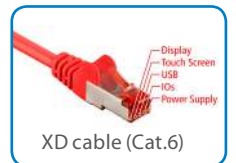
### A2-PAC - Standalone or as System Unit for L1/C1 Automation Panels



The XD panel interface enables remote operation of the L1/C1 panels connected to A2-PAC base units. Video, touch-screen, USB, IO and power supply are transmitted over a single, up to 100 meter long standard Cat.6 cable. The DVA panel interface is available for distances of up to 5 meters. Both interfaces are independent of operating system and software.






XD Panel Interface (max. 100 meters)



In addition to the standalone version for mounting in electric cabinets, the A2-PAC base unit is also available as a system unit for L1/C1 automation panels. In this combination, the A2-PAC can be used as Touch-PLC. The xA system unit is simply mounted on the back of the panel. Display, touchscreen, USB and power supply are routed over a standardized mechanical and electrical interface.

Technical Information		A2 - Programmable Automation Controller
CPU		Intel® Atom™ to Core™-i CPUs
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
	USB	2 x USB over Type A connector, 1 x USB over DVA panel interface
	Ethernet	1 x 10/100/1000 MBit/s Ethernet
	Kbd/Mouse	over USB
	Video	1 x HDMI, 1 x XD panel interface, 1 x DVA panel interface
	Mini-PCIe	Expansion slot (LAN, WLAN, Bluetooth, further field busses, external SATA interface, 3G modem, etc.)
Storage		mSATA (2 GB or greater), SD-Card slot
Field busses		1 x RT-Ethernet with 2 x RJ45 for Sercos or EtherCAT (each master or slave), 1 x CAN
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 systems		Windows® CE, Windows® Embedded, Linux (others on demand)
Software		CODESYS IEC-61131, OPC-UA Server, CODESYS target-/web-visualization, Qt (others on demand)
Certifications		CE, RoHS

## PRODUCTS

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**

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