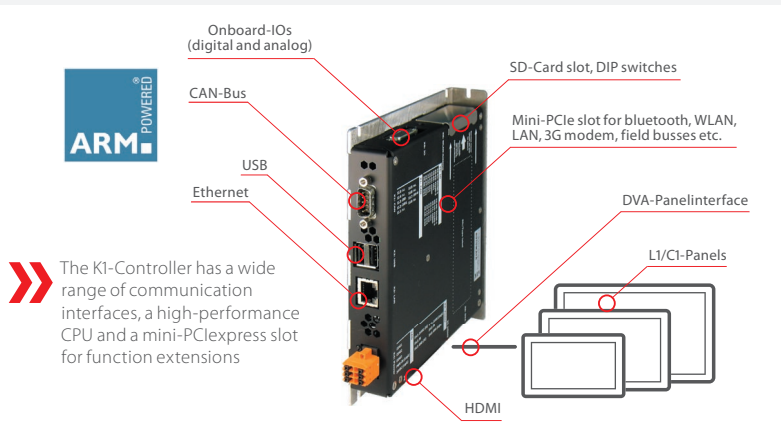




## Controller



- ARM® Cortex®-A9 Multicore CPU
- CAN and Onboard IOs
- DVA-Panelinterface
- programmable with CODESYS IEC 61131-3

Thanks to its powerful CPU, the K1-Controller covers a wide range of applications. It is suitable for both standard use-cases and applications with high performance requirements.

In addition to USB and Ethernet, the K1-Controller has Onboard-IOs and a CAN interface for connecting field devices like IOs and drives.

### Controller and visualization in one device

The K1 is the ideal solution for applications where control and visualization are running on one device. The base for this is its 3D graphics engine and its DVA-Panelinterface. With this interface, panels of the L1 and C1 series can be connected via a single cable, including also the power supply for the panel. Alternatively, the K1-Controller can also be mounted as a L1/C1 system unit directly on the back of the panels.

### CODESYS - the proven engineering tool

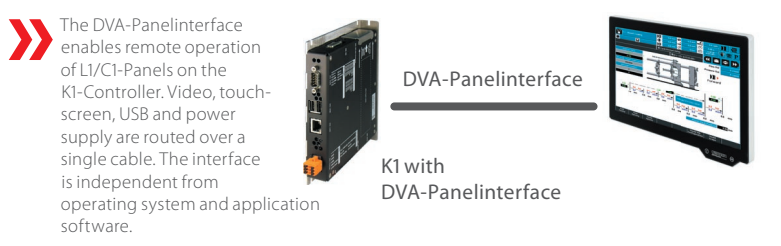
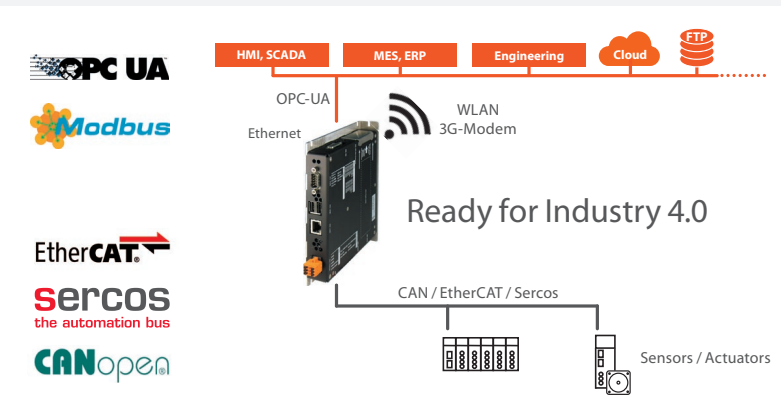
The K1-Controller is programmed with CODESYS V3 in the common IEC 61131-3 languages. Visualizations and user interfaces can be created with CODESYS Web/Target Visu or Qt.

### Ready for Industry 4.0

The Ethernet interface in conjunction with the integrated OPC-UA server enables the integration into SmartFactory structures.

### Unlimited expandability

WLAN, 3G modem or Real-time Ethernet interfaces like EtherCAT® or Sercos® can be added via the Mini-PCIe slot. In this way, e.g. wireless communication for Industry 4.0 applications over a 3G modem is possible.



Technical Information		K1 - Controller
CPU		ARM® Cortex® -A9 Multicore CPU, 1GHz
Memory		DDR3 RAM (1 GB or greater), 8 kB NVRAM (FRAM), 1 GB FLASH (optional)
Ports	Serial	-
	USB	2 x USB over Type-A connector, 1 x USB OTG, 1 x USB over DVA connector
	Ethernet	1 x 10/100 MBit/s Ethernet
	Kbd/Mouse	over USB
	Video	1 x HDMI, 1 x DVA-Panelinterface
	Mini PCIe	Expansion slot (e.g. LAN, WLAN, Bluetooth, further field busses, G3 modem, etc.)
Storage		SD-Card Slot
Field busses		1 x CAN, (Options: EtherCAT Master/Slave, Sercos Master/Slave)
Onboard I/Os		4 x DI, 4 x DO, 2 x AI, 1 x AO
Dimension	H x D x W	170 x 155 x 28 mm
Power supply		24VDC
Cooling		passive
Housing		metal
Mounting		wallmount
Operating temperature		0°C ÷ +55°C
Protection class		IP20
Operating system		Linux (others on demand)
Software		CODESYS IEC-61131 V3 and CODESYS Target/Web visualization (others on demand)
Certifications		CE, RoHS



## PRODUCTS

Technological components for industrial automation.



✓ PAC - PROGRAMMABLE AUTOMATION CONTROLLER

✓ FIELDBUS & INDUSTRIAL ETHERNET

✓ I/O MODULES

✓ HMI - HUMAN MACHINE INTERFACE



✓ AUTOMATION SOFTWARE

✓ DRIVES



## APPLICATIONS

Hardware and software solutions for specific user applications.

✓ REMOTE MONITORING & ASSISTANCE

✓ MACHINE CONTROL & PRODUCTION

✓ ENVIRONMENTAL MONITORING

✓ MOTION & ROBOTICS

✓ PREVENTIVE MAINTENANCE

✓ 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.automata.de@cannon.com

### Automata S.p.A.

Via G. Carducci, 705

I-21042 Caronno Pertusella (VA)

Tel. +39 02 9639970

Fax +39 02 96399731

sales.automata.it@cannon.com

**www.cannon-automata.com**