



Applications:

- Plastic, injection machines
- Plastic, blow molding machines
- Metal

Main characteristics:

- Graphic, PLC and I/Os integrated in a single compact unit
- Compact solution (L<300 mm)
- Locally expandable
- Modular cards
- Scalable
- Easily installable, DIN rail mounting

PROFILE

Panorama of the solution and its functions

The ePCLogic400 is a complete process and automation control solution: a single modular system that controls sequence and work processes, and sets and displays data and connectivity. It does this by providing a group of technological functions such as PWM, fast counters, data logger storage, temperature PIDs, and data export via FTP for rapid creation of applications.

The ePanel and eGT-I operator interfaces can be ordered separately to combine with the ePCLogic400 Controller, which integrates a CPU module and I/O modules.

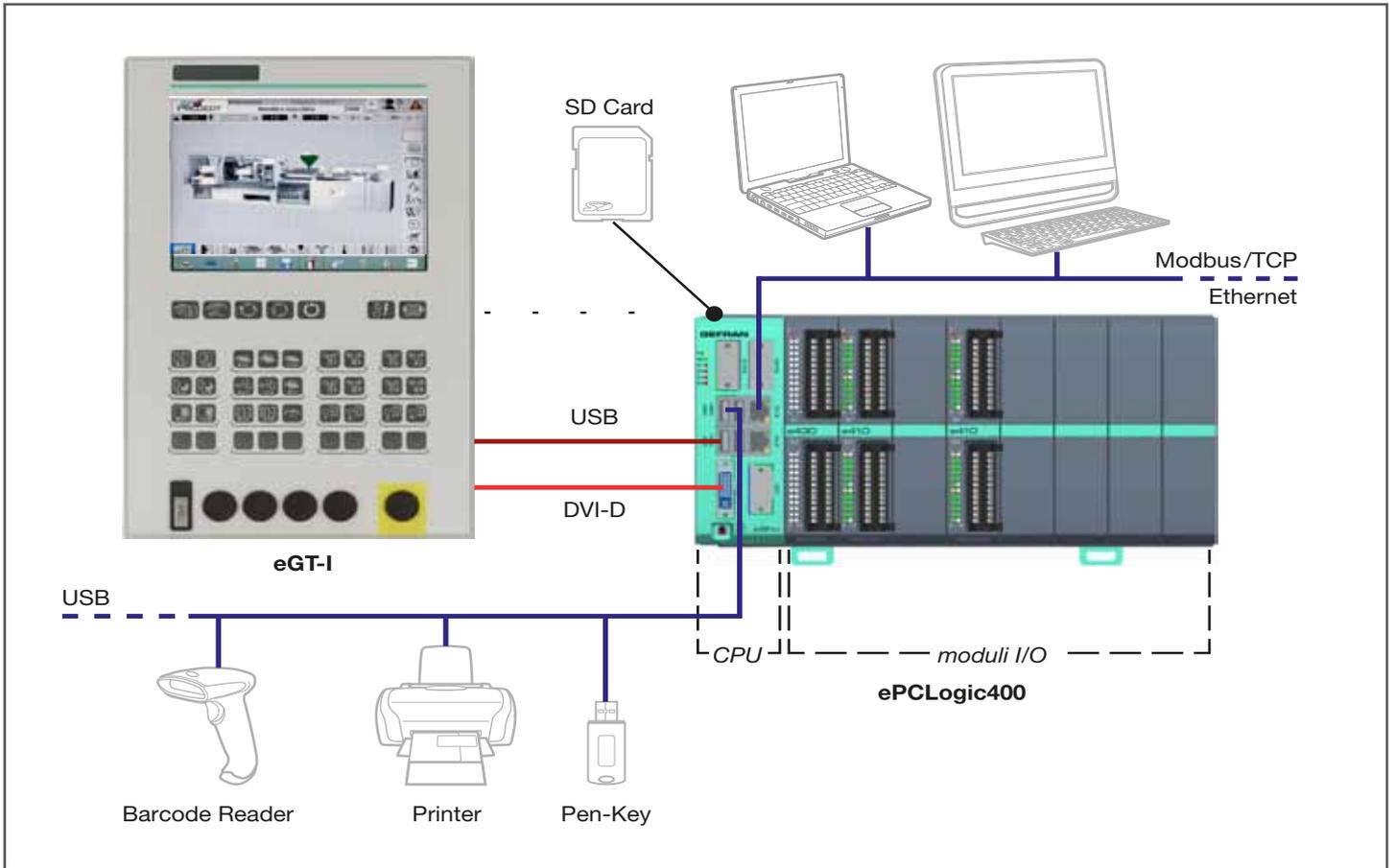
The operator interfaces are available with different size displays, in horizontal or vertical versions, with keyboard or only with touch screen.

The Controller can be completely customized to suit the user's needs in terms of CPU power and number/type of inputs and outputs, adapting perfectly to the machine or system to be controlled.

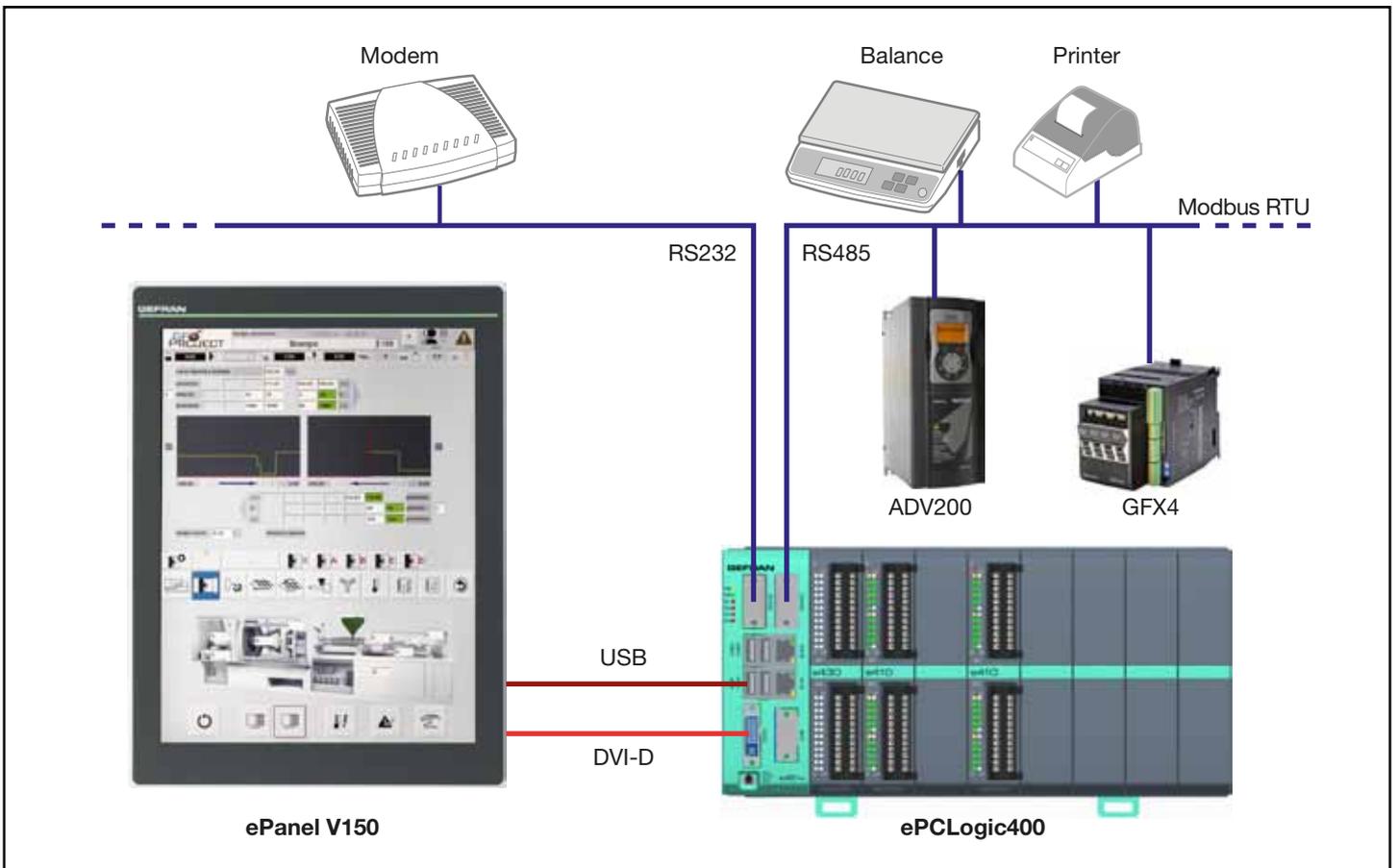
Thanks to its flexibility and ease of use, it can be used in various industries for a wide range of process and automation control applications, such as:

- packaging;
- metal (washing, etc.);
- plastic.

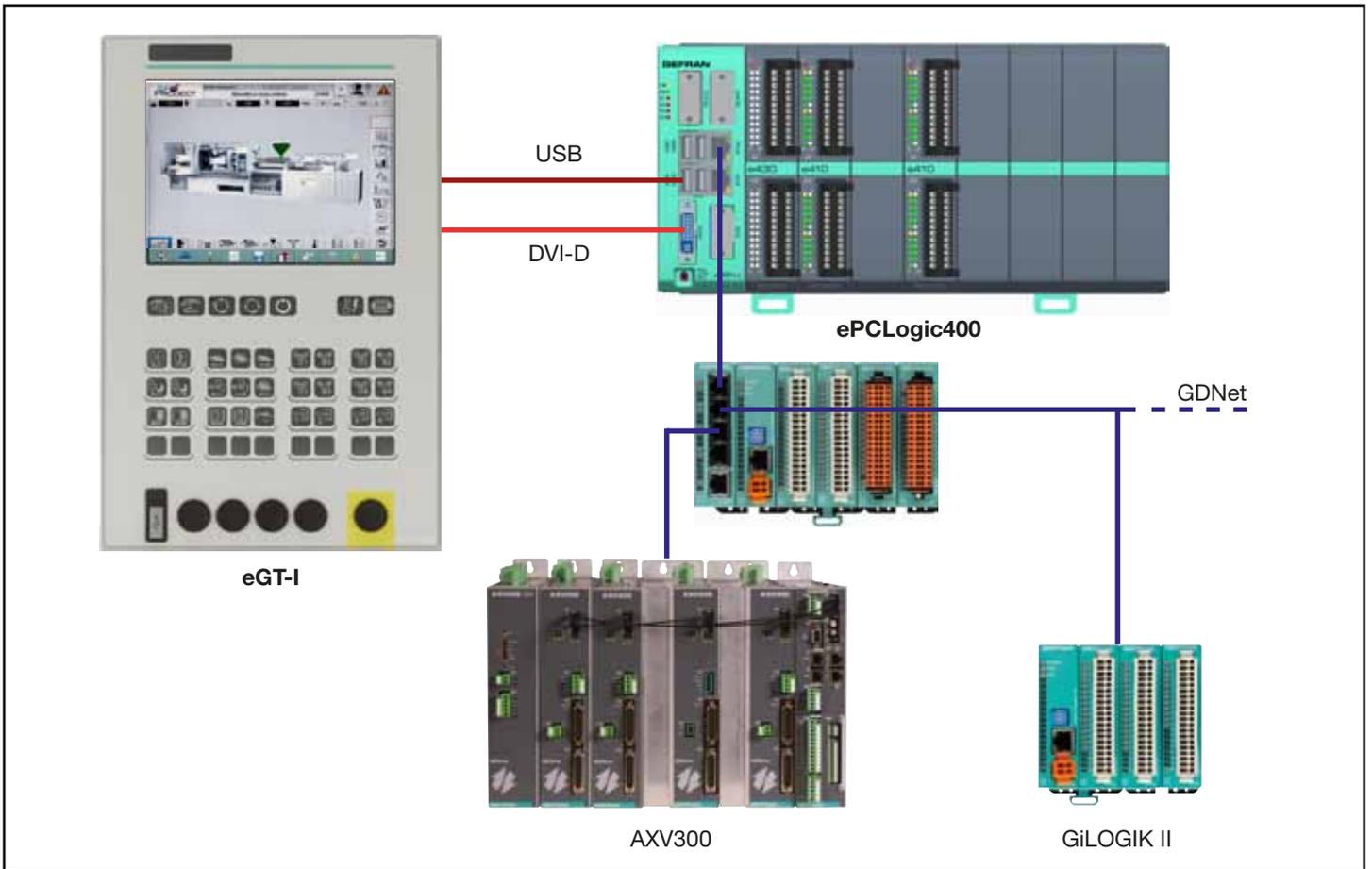
ARCHITECTURE



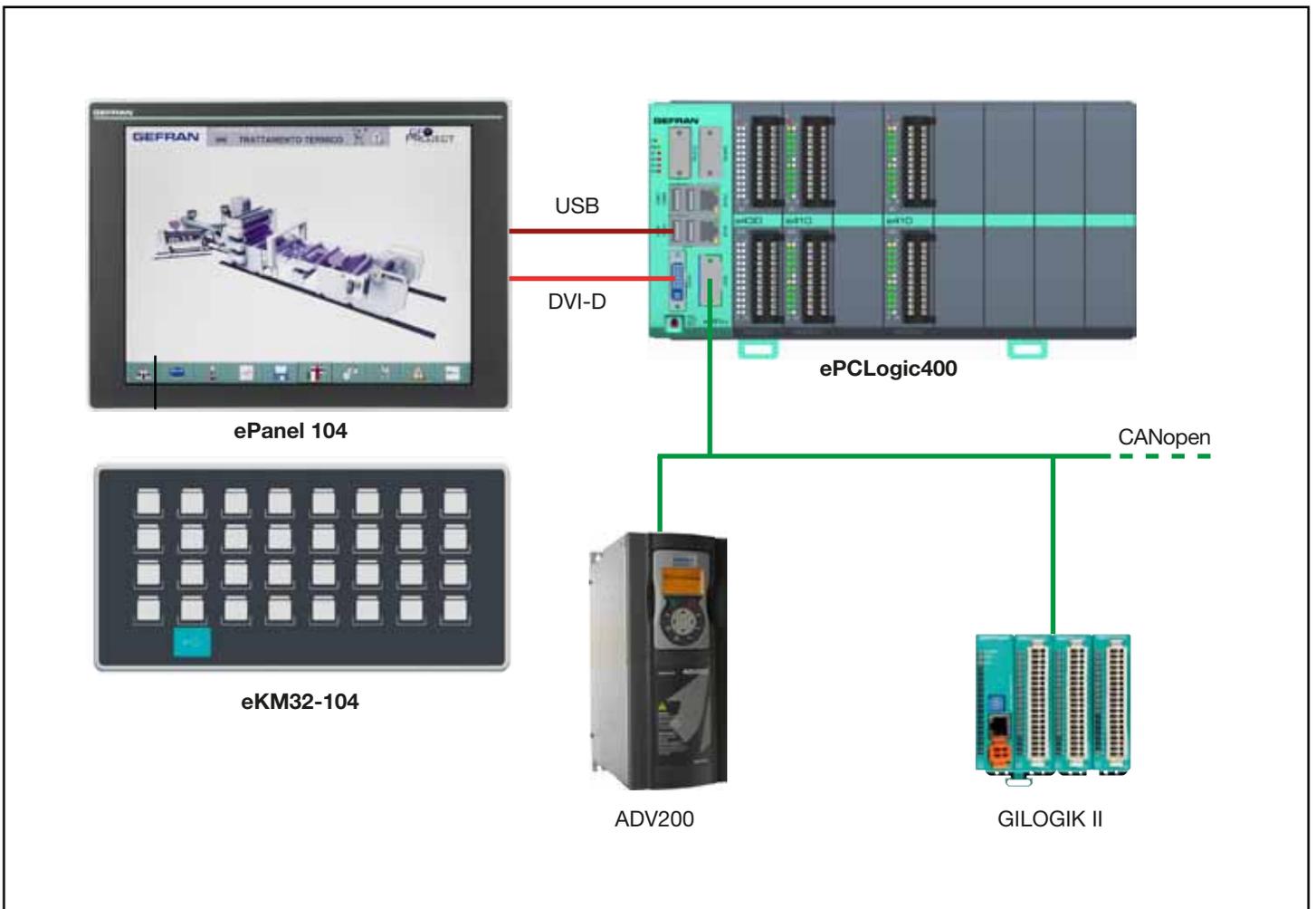
System architecture



RS485 / RS232 - Modbus RTU System architecture



GDNet System architecture



CANOpen System architecture

ORDER CODES



The order code of the system ePCL400 must be composed by observing the following guidelines:

1. Selecting modules from left to right
2. Position 00 is reserved for the CPU modules
3. After the CPU module selects the analog modules, then the functional I/O modules, and finally the digital I/O modules.

00 01 02 03 04 05 06 07 08 *position*
ePCL400 0000 00 00 00 00 00 00 00 00 *Model*
Number

Functional I/O

3 0	6 analog inputs + 4 analog outputs + 8 temperature inputs (1 slot)
-----	--

Digital I/O

1 0	16 digital inputs + 20 digital outputs (2 slots)
-----	--

1 1	16 digital inputs + 16 digital outputs (single slot)
-----	--

CPU: Intel Atom E620 (600 MHz) processor, 2 GB Flash memory, 512 MB RAM

9 1 0 0	IO ports: DVI-D, 1 x Ethernet, 2 x USB
9 1 0 1	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x RS485, 1 x RS232
9 1 0 2	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x CAN
9 1 0 3	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x RS485, 1 x RS232, 1 x CAN
9 1 0 4	IO ports: DVI-D, 2 x Ethernet, 4 x USB
9 1 0 5	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x RS485, 1 x RS232
9 1 0 6	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x CAN
9 1 0 7	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x RS485, 1 x RS232, 1 x CAN

CPU: Intel Atom E640 (1 GHz) processor, processor, 2 GB Flash memory, 512 MB RAM

9 2 0 0	IO ports: DVI-D, 1 x Ethernet, 2 x USB
9 2 0 1	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x RS485, 1 x RS232
9 2 0 2	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x CAN
9 2 0 3	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x RS485, 1 x RS232, 1 x CAN
9 2 0 4	IO ports: DVI-D, 2 x Ethernet, 4 x USB
9 2 0 5	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x RS485, 1 x RS232
9 2 0 6	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x CAN
9 2 0 7	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x RS485, 1 x RS232, 1 x CAN

CPU: Intel Atom E660 (1,3 GHz) processor, 2 GB Flash memory, 512 MB RAM

9 3 0 0	IO ports: DVI-D, 1 x Ethernet, 2 x USB
9 3 0 1	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x RS485, 1 x RS232
9 3 0 2	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x CAN
9 3 0 3	IO ports: DVI-D, 1 x Ethernet, 2 x USB, 1 x RS485, 1 x RS232, 1 x CAN
9 3 0 4	IO ports: DVI-D, 2 x Ethernet, 4 x USB
9 3 0 5	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x RS485, 1 x RS232
9 3 0 6	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x CAN
9 3 0 7	IO ports: DVI-D, 2 x Ethernet, 4 x USB, 1 x RS485, 1 x RS232, 1 x CAN

EXAMPLE OF ORDER MODEL NUMBER

Code	Model Number	Description
F057775	ePCL400-9100-30-10-00-10-00-00-00	Complete ePCLLogic400 system, consisting of rack with integrated power supply, Atom E620 600 MHz CPU with one DVI-D port, two USB ports, one Ethernet port. One 18-channel (6 analog inputs + 4 analog outputs + 8 temperature inputs) e430 functional I/O module Two 36-channel (16 inputs + 20 outputs) e410 digital I/O modules. Full frontal for unused slots

ACCESSORIES

Code	Model Number	Description
F057774	eCON24	24-pin female connector,
F057674	CAV_DVI18	1,8 meter DVI-D cable
F057675	CAV_DVI50	5 meter DVI-D cable
F057676	CAV_USB_AB18	1.8 meter USB 2.0 cable, type A - type B connectors
F057677	CAV_USB_AB50	5 meter USB 2.0 cable, type A - type B connectors
F057679	USB_PEN1G	1 GB USB key
F057777	SD_CARD_1GB	SD Card 1GB

PROGRAMMING TOOL

GF_PROJECT VX

Development software that allows the writing of the application program for PLC with IEC1131 languages. Also allows the construction, in graphic mode, of the various pages of the user interface necessary to the application developed.

Via GF_PROJECT VX it is possible to connect to the device that will host the application to debug the program and upload the upgrades.

System requirements

	Minimum	Recommended
Operative system	Windows XP SP2 or Windows Vista or Windows 7 (32 bit)	Windows 7 (64 bit)
Processor	Intel Pentium 1 GHz	Intel Core i5 2,5 Ghz or superior
RAM	2 GB	4 GB or superior
Free space on Hard Disk	2 GB	4 GB or superior
Graphic resolution	XGA (1024 x 768 pixel)	SXGA (1280 x 1024 pixel) or superior
Browser	Microsoft Internet Explorer 8.0	Microsoft Internet Explorer 9.0
Ethernet Port	1 RJ45	1 RJ45
DVD player	Yes	Yes
USB port	1 USB 2.0	1 USB 2.0