PLC 6 axis InterpCNC V3

1 Product Specifications

Model: InterpCNC V3
Manufacturer: SOPROLEC
Dimensions (L x W x H): 112 mm x 106 mm x 58 mm
Weight: 0.242 kg
Power supply: 24 VDC / 300 mA

2 Interfaces de communication

USB: Virtual COM port using the Modbus RTU protocol, offering fast communication for numerical control applications.

Serial: Two RS485 ports (COM1 and COM2) compatible with the Modbus RTU protocol, suitable for industrial applications. Each port operates independently, allowing master or slave mode (e.g., one port for the HMI screen and the other for an input/output extension module), or both in slave mode to connect two HMIs.
DMX: COM1 is also compatible with the DMX512 protocol, commonly used in the entertainment industry, while COM2 can be configured in DMX Master mode.

Ethernet: Modbus TCP or Modbus UDP protocol, ideal for applications requiring remote data exchange with other Ethernet devices (HMI, drives, etc.), or between multiple InterpCNC V3 boards, such as different stations in a production line.

Additional protocols: Communication with a Linky meter and MQTT.

3 Specifications/Features

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Communication Ports	USB, 2*RS485 , Ethernet
Digital Outputs	16 Outputs PNP/NPN
Digital Inputs	16 Inputs + 7 Fast Inputs (Interrupts, Counters, or Encoders)
Inputs Type	PNP ou NPN
Analog Inputs	4 Inputs (0-10V)
Analog Outputs	2 Outputs (0-10V)
Axis	6
Power supply	24VDC / 300mA
Disply	OLED
Software	ICNCStudio (Basic PLC)
Warranty	2 years
Prix	€381.00 Excl. Tax

4 Key PLC Advantages

Programming Capability for Three Types of Interrupts: Periodic, input-state-related, and axis-position interrupts, with a processing latency of less than **5 µs**.

Up to 32 different interrupt processes can be configured (either periodic or input-related).

5   Software Development Environment

The PLC comes with the ICNCStudio software, which is free and specifically developed by SOPROLEC. Highly intuitive and user-friendly, it features built-in help functions that allow you to efficiently develop your own programs, test them, debug, and observe their operation.
It also enables real-time access to all parameters and registers of your InterpCNC V3 PLC.
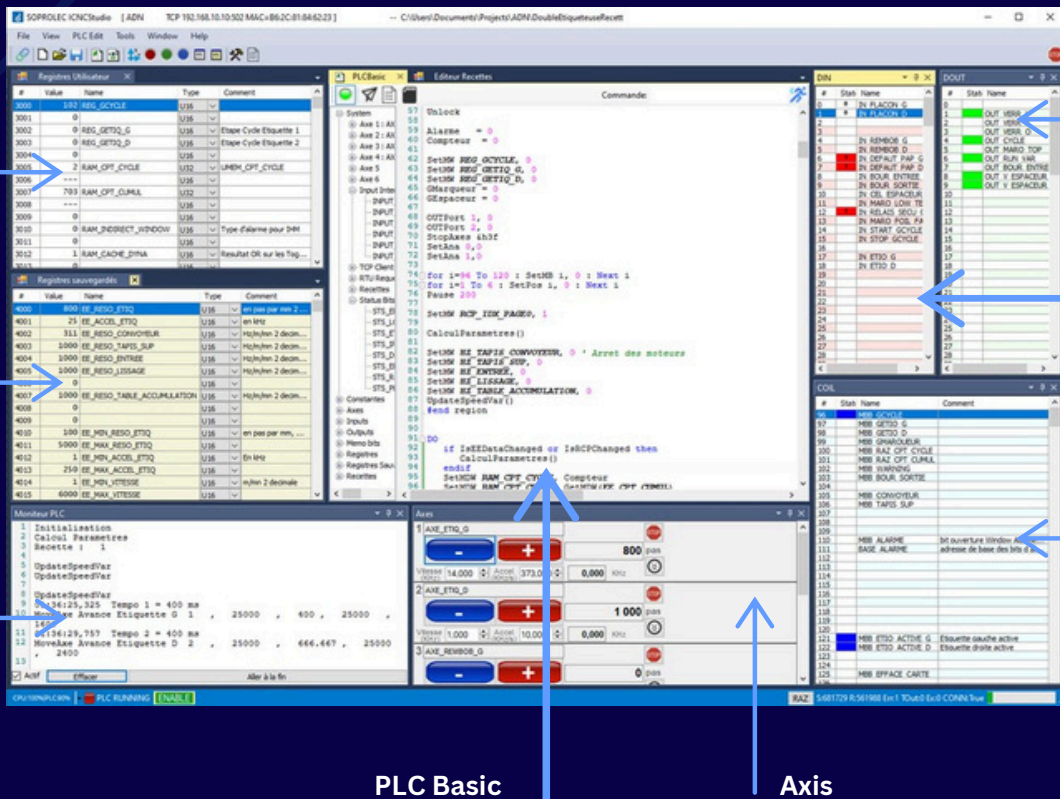
Digital Outputs

Digital Inputs

Coils

RAM Registers

EEPROM Registres

PLC Monitor

PLC Basic

Axis

Automation programming is done in Basic PLC language. This makes the code simple and highly efficient, allowing for the easy implementation of Grafcet diagrams. Examples of programs are available on our website www.soprolec.com.

6   Examples of Applications

Packaging Line

Double Labeling and Capping Machine