Digital control, Automation and Axis control

PLC 6 axis InterpCNC V3

SOPRÍLEC





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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

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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

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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.

Key PLC Advantages

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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).

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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.

LEC ICNCRudie [ADN TCP 192.168.10.10.502 MAC+86.2C81.64.62.23] PLCEdit Tools **Digital Outputs** VP 86_087790_0 86_087790_0 Alazme = 0 Compteur = 0 **RAM Registers** SetMN MEG_OCYCLE, 0 SetMN MEG_OETIQ G, 0 SetMN MEG_OETIQ D, 0 OMarqueur = 0 GEspaceur = 0 RAM_OPT_CICLE EN,OFT,CICLE 105 RAN OPT CUMU 2400 2400 2400 2400 2400 2400 2400 OUTPort 1, 0 OUTPort 2, 0 StopAxes 4h3f SetAna 0,0 SetAna 1,0 KAN, DEGRECT, NORCO ype d'alorne pour DMI IN START O RAM CACHE DINA uitat OR sur les Top IN ETIO G IN ETIO D **Digital Inputs** egerdés 📕 for 1-94 To 120 : SetHB 1, 0 : Next 1 for 1-1 To 6 : SetPos 1, 0 : Next 1 SetHA RCP_IEX_PAGEO, 1 575,8 575,F 575,F 575,9 575,9 575,9 575,8 CalculParametres() NN BI TAPIS CON NN BI TAPIS SUP, NN BI TAPIS SUP, NN BI ENTRE, 0 NN BI TABLE ACC NN BI TABLE ACC **EEPROM Registres** EE RESO TABLE A HEE GRIDD D HEE GRAADUELR HEE RAZ OFT CYCLE HEE RAZ OFT CLAUX HEE WARDING HEE BOUR SORTE anged or IsSCPChanged then SHINEN RAN CPT CYT Compteur MEE CONVOITUR MEE TAPIS SUP Coils Initialisation Calcul Parametres Recette 1 1 HER ALARME bit ouverture Mindow Automativesse de base des bits d a 0 OpdateSpeedVar **PLC Monitor** . UpdatedpeedVar 0136:25,325 Tempo 1 = 400 ms Mussike Avance Etiquette G 1 , 1 000 25000 , 400 , 25000 , 0 129,757 Tempo 2 = 400 ms , 25000 , 666.667 , 25000 0.00 MEB ETID ACTOR G Esquette quote active MEB ETID ACTOR D Esquette drote active + HER EFFACE CARTE **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 <u>www.soprolec.com</u>.



Packaging Line



Double Labeling and Capping Machine

