

The PLC / CNC / HMI line TOP series is a true revolution in the concept of automation, incorporating the robustness and reliability of industrial PLC/CNC and the potential of interconnectivity and interfacing of PC operating systems.

The range is composed of 3 different sized HMI (7"/ 10"/ 12") colour Touch Screen with a front USB port and a 6-button mechanical supporting keypad.

	ТОР7	TOP10	TOP12	
Power supply	24Vdc 1A			
Display	7" 800×480	10" 800×600	12" 800×600	
Keyboard	6-button mechanical keyboard			
Touch screen	Industrial resistive technology touch screen			
Serigraphy	Polycarbonate for industrial environments			
Programming	Ladder/C/ISO on ETHERNET / USB			
Time register	Yes			
Fieldbus	2 CANOPEN ports – 2 MODBUS ports (optional)			
Usb	1 front USB (1 USB on the back optional)			
Ethernet	1 Ethernet port 10/100 Mbit			
Connectors	Removable by screw or optional with spring			
DIMENSIONS				
Front	H: 150mm / L: 205	H: 212mm / L: 283	H: 250mm / L: 340	
Depth	P: 66mm	P: 81mm	H: 85mm	

ALL-IN-ONE SOLUTION — MODULAR AND CONFIGURABLE

TOP systems integrate HMI, PLC and CNC (axis control) into a single product, offering an integrated solution that meets every need. The ability to directly configure the product with the required analog/digital I/O cboards completely autonomously makes the solution even more flexible. Finally, the possibility to integrate on board or remote I/O extends its usability, both for compact electrical panel applications and for remote Operator Panels.

■ SELF-DETECTING SYSTEM

The system consists of 5/7/8 slots for inserting I/O cards and is based on a sophisticated communication bus that automatically detect each inserted card, thereby addressing the available resources.

PC-ORIENTED AND INDUSTRIA 4.0 SOLUTION

The PLC / CNC / HMI line TOP series is Linux o.s.-based and integrates PC-Oriented functionality, such as the possibility of network connectivity, remote control (VNC SERVER), data exchange with corporate information systems, standard file formats managing (CSV, DXF, PDF, etc.), and database accessing (MySQL).

MOTION CONTROL, KINEMATICS / ROBOTICS AND LINKED MOTION

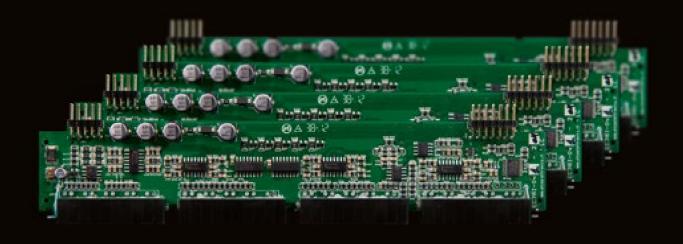
TOP products incorporate a G ISO Code processor and manage advanced kinematics and robotics (SCARA, DELTA, ANTHROPOMORPHIC), as well as evolved linked motion such as GANTRY AND ROTARY LINEAR FLYING SAWS.

COMMUNICATIONS AND FIELDBUS

The system is equipped with serial communication ports (RS232 / RS485), CAN and ETHERNET, thus offering the possibility of interfacing using standard protocols such as MODBUS RTU / TCP/IP and CAN BUS CAN OPEN with external slave devices (drives, remote I/O, inverters, sensoristics, supervision scada, etc.).

PROGRAMMABILITY

The high degree of flexibility and ease of use is ensured by integrated programming via Elco Automation Studio software: a development suite that allows a single software to create PLC logic (PLC), axis Motion Control (CNC) and operator interface (HMI).



► INTEGRATED TOP SERIES BOARDS

EC7XX boards are a flexible solution that allows you to complete the PLC/CNC/HMI TOP series with analog/digital I/O, communication and fieldbus resources.

CODE	FEATURES	SLOT
EC7COM_011	24Vdc power supply + 2 RS232 + 1 ETHERNET	COM
EC7COM_012	24Vdc power supply + 2 RS232 + 1 ETHERNET + 2 RS485 + USB retro	COM
EC7COM_013	24Vdc power supply + 2 RS232 + 1 ETHERNET + 2 RS485 + USB retro + CAN	COM
EC7DIO_021	16 PNP 24V digital inputs + 16 PNP 24V 1 A digital outputs	STD
EC7AS_031	2 ENCODER inputs (NPN – PUSH PULL – LINE DRIVER) + 2 16 bit analogue outputs (+/- 10V) + 2 pulse/dir frequency outputs (5V LD 2Mhz)	STD
EC7AI_041	8 16 bit analogue outputs (0-10V – 4-20mA – PT100) + 2 16 bit analogue outputs (+/- 10V)	STD
EC7SM_051	2 24Vdc – 1.5A stepper drives	EXT
EC7SS 091	6 SSI inputs	EXT



