



# *SlimLine*

16+8 digital I/O expansion Module



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## 16+8 digital I/O expansion Module

The SlimLine's 16+8 I/O expansion module allows the acquisition of up to 24 Digital I/Os through its I<sup>2</sup>C™ High-Speed bus aside of the SlimLine CPUs.

The Power Save function, adopted to control relay coils, allows a great energy saving and consequently, a strong reduction of dissipated power.

Each digital input/output is equipped with LED status indicator.

The module may acquire a bi phase encoder (rotary or linear) with a max frequency of 50kHz, edge detection algorithm and index.

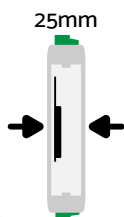
The use of a programmable FPGA on board allows the solution of "Time-critical" problems that can not be solved with traditional PLC systems. The module is engineered in a compact self-extinguishing UL94 V-O PC/ABS enclosure; it is directly grafted onto DIN rails according to the standards EN50022/IEC60715.

The I/O's connections are made through extractable TB for an easier maintenance. To connect the extension modules to the CPU, it needs to use the proper bus extension cables (Code CBLO74\*000 and/or CBLO45\*000) to be ordered separately. Up to 16 modules can be connected to the CPU module (to be verified according to the CPU module used).



## SLIM

Engineered in ultra compact self-extinguishing UL94 V-0 PC/ABS enclosure, suitable for DIN rail mount according to the standard DIN EN60715.



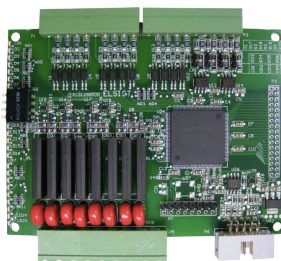
## Low power

Powered from I<sup>2</sup>C™ bus 5vdc@0.75W only, “Power save” function on Relay coils to save energy. These devices are suitable for **energy critical systems**.



## Embedded version available

Build your own custom control system, reducing time to market and keeping costs down thanks to the wide variety of CPUs and I/O cards. Easy integration of custom made I/O cards through the standard I<sup>2</sup>C bus.



## This module is equipped with

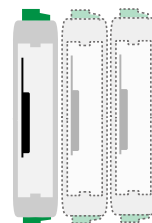
- FPGA for “Time critical” application
- “Power save” Function
- 16 insulated digital input (1 encoder 50Khz)
- 8 digital output Relay or SSR
- 1 I<sup>2</sup>C™ High-speed expansion bus

## The module is available in 2 versions:

- Relay version: 16 digital In, 8 Relay Out, I<sup>2</sup>C Bus.
- SSR ZC Version: 16 digital In, 8 SSR ZC Out, I<sup>2</sup>C Bus.

## MODULAR

The system is expandable with up to 16 I/O modules, allowing a maximum of 772 digital I/O on local bus.



## Wide operating temperature

With an operating temperature from -20 to +70°C, these devices are suited for **environment critical applications**.



Version	Relay	SSR Zc
Code	PCB129*001	PCB129*101
Power supply (from expansion bus)	5V 150mA max. (1)	
Digital inputs	16 Optoisolated 10-30Vdc, 7mA@24V	
	12 of which PNP/NPN	
	4 of which PNP only, may be set for 5Vdc operation	
Digital outputs	8 Relay 5A@250Vac/5A@30Vdc max. (3)	8 SSR Zero-Cross 2Arms 20-240Vrms (-20 to 25°C), 1Arms (70°C) (3), I²T for fusing: 8A²s Zero-Cross Turn-On Voltage: 20V min Latching Current: 100mA min (AC only)
Bi phase, edge detection, index, encoder management	Nr 1 Fmax 50Khz (2)	
Status indicator	Module Status, I/O Status	
Environment	Operating temperature: From -20 to +70°C	
	Storage temperature: From -40° to +80°C	
	Relative humidity: Max. 90%	
Dimension and weight	Dimensions: 22.5 mm L x 101 mm W x 120 mm H	
	Weight: 150g	
Approvals	CE, RoHS	
Warranty	2 Years	
Notes: (1) All inputs ON and all Outputs ON (worst case) (2) The encoder must be provided of Push-Pull 10-30Vdc output (3) 1 common for 8 Output		