Adv140A000

SlimLine

Static output expansion I/O Module

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Static output expansion I/O Module

The SlimLine's Static output expansion module allows the acquisition of up to 48 Digital I/Os through its I²C™ High-Speed bus aside of the SlimLine CPUs.

The module is available in 7 different configurations in order to satisfy the Customer need at competitive cost. All versions are provided of isolated digital outputs self protected against overload/short circuit and able to switch loads of 0.7A@45Vdc.
Each digital input/output is equipped with LED status indicator.

The module is engineered in a compact self-extinguishing UL94 V-0 PC/ABS enclosure; it is directly grafted onto DIN rails according to the standards EN50022/IEC60715.

To connect the extension modules to the CPU, it needs to use the proper bus extension cables (Code CBL074*000 and/or CBL045*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).

The PCB124*000 module may acquire a bi phase encoder (rotary or linear) with a max frequency of 50kHz, edge detection algorithm and index.

The presence of a programmable FPGA on board allows the resolution of issues "Time Critical " not solvable with traditional PLC systems.

The I/O's connections are made through extractable TB for an easier maintenance.

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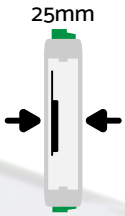
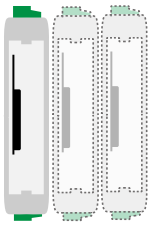
SLIM

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



MODULAR

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



Low power

Powered from I²C™ bus 5Vdc 265mA max.
These devices are suitable for **energy critical systems**.

Wide operating temperature

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

This module is equipped with

- FPGA for "Time critical" application
- Up to 32 insulated digital input (1 encoder 50Khz)
- Up to 24 Static digital output
- Output self protected against overload/short circuit
- 1 I²C™ High-speed expansion bus

The module is available in 7 versions:

- PCB124*000: 16 Digital In, 8 Static Out Bus I²C™,
- PCB124*100: 16 Digital In, 16 Static Out Bus I²C™,
- PCB124*200: 16 Digital In, 24 Static Out Bus I²C™,
- PCB124*300: 24 Digital In, 8 Static Out Bus I²C™,
- PCB124*400: 32 Digital In, 8 Static Out Bus I²C™,
- PCB124*500: 24 Digital In, 24 Static Out Bus I²C™,
- PCB124*600: 32 Digital In, 16 Static Out Bus I²C™.

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Code		PCB124*000	PCB124*100	PCB124*200	PCB124*300	PCB124*400	PCB124*500	PCB124*600
Power supply (from Expansion bus)		5V 150mA (1)	5V 200mA (1)	5V 250mA (1)	5V 180mA (1)	5V 215mA (1)	5V 230mA (1)	5V 265mA (1)
Digital Inputs	Optoisolated 10-30Vdc, 7mA@24V	16	16	16	24	32	24	32
	Nr of which PNP/NPN	12	12	12	16	20	16	20
	Nr of which PNP only/ Set for 5Vdc operation	4/4	4/0	4/0	8/4	12/8	8/4	12/8
Digital Outputs	Static PNP 700mA@45Vdc (Self protected against overload/short circuit)	8	16	24 (2)	8	8	24 (2)	16
	T On (Max)	100uS (3)						
	T Off (Max)	200uS (3)						
Bi phase, edge detection, index, encoder management		1 (4)	0					
Counter management		2 (5)	0					
Status indicators		Module Status I/O Status						
Environment	Operating temperature	from -20 to +70°C						
	Storage temp.	from -40° to +80°C						
	Humidity	Max. 90%						
Dimensions		22.5mm L x 101mm W x 120mm H	49mm L x 101mm W x 120mm H					
Weight		120g	225g					
Approvals		CE, RoHS						
Warranty		2 anni						

Notes:
(1) All inputs ON and all Outputs ON (worst case)
(2) On 16Out the current of 700mA is conditioned to a maximum of 8A of the bank.
(3) At 24Vdc 47Ohm Load
(4) The encoder must be provided of Push-Pull 10-30Vdc output
(5) From PCB124B000 s/n 00071