

System I/Os Controller

SC-IO-16I-16O

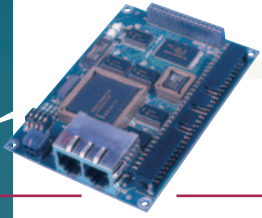
The SC-IO is a system controller for distributed motion control systems. It is easily programmable, provides remote CAN access to all C&RS products and has built in, optically isolated, 16 high voltage inputs and 16 high current outputs.

General Description

The SC-IO is a system controller based on the SC-2M family, using the same communication links and protocols and the same macro language and features. However, instead of encoders interfaces, it has 16 digital inputs and 16 digital outputs, all isolated and driven. The SC-IO answers two needs: a remote CAN I/Os unit and a system controller that controls a set of remote units over CAN.

Highlights

The SC-IO, when used as a remote I/Os unit, provides 16 digital inputs and 16 digital outputs that can be easily controlled by RS232 or CAN commands or by a local macro (or a combination of all the above). The digital inputs are organized in four independent groups of 4 inputs, each group has its own common signal. Each input is isolated and can be up to 28v, thus supporting interfaces to standard PLC units. The digital outputs are also organized in four independent groups of 4 outputs, each group has its own common signal. Each output is isolated and driven by a ULN2003 to an output current of up to 200 mA, supporting interfaces to medium power actuators. The SC-IO is also equipped with two analog inputs and one analog output that can be accessed by the user and can be used for any type of sensor or actuator. The SC-IO macro has special keywords for remotely communicating with other C&RS products over CAN. As a result, using its local I/Os, its powerful macro support and the access to remote units, the SC-IO is a compact and low cost solution for controlling small to medium scale distributed motion control systems. The SC-IO, as well as the SC-2M, the LSD-2M and the PSD-2M is supplied with a unique Windows Shell program. The Shell program provides unique Integrated Development Environment (IDE) for user programs, supporting: editing, compiling, error listing, single step, breakpoints, watch window and more.



Specifications

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Controller General

Power supplies	5, ±(12-15)	V
Operating temperature	0-70	°C
Dimensions	100 x 76 x 20	mm
Diagnostics	Controller OK LED System Error LED	
Sampling rate	2	KHz
Digital inputs: Number	16	
Interface	Isolated, 4 groups of 4, each group with independent common	
Max. voltage	28	V
Digital outputs: Number	16	
Interface	Isolated and driven by ULN2003, open collector, 4 groups of 4, each group with independent common	
Max. current	200, each	mA
Analog inputs: Number	2	
Range	±10	V
Resolution	10	Bits
Analog output: Number	1	
Range	±10	V
Resolution	9	Bits
User programs	2 simultaneously	
Programming features	Software interrupts Subroutines, Complex expressions High level: if, else, while, for Break point, single step	
Program execution speed	4-8	clauses/sec
Accessories	Terminal Board (SC-IO-TB) Connection Board (SC-IO-CB) Relays Board (SC-IO-RB) Analog I/Os Board (SC-IO-AE)	

