



CAN-Control-I/O

64 Digital Inputs and 32 Digital Outputs

- Microcontroller 80C592
- CAN interface acc. to ISO 11898, without electrical isolation, bit rate up to 1 Mbit/s
- 32 digital outputs 12V or 24V, load 0.65...1.2A, short circuit and overload protection
- 64 digital inputs 24V, electrically isolated
- Combicon-style connectors
- Suitable for CANOpen and J1939.

CAN I/O in 19" Plug-In Case

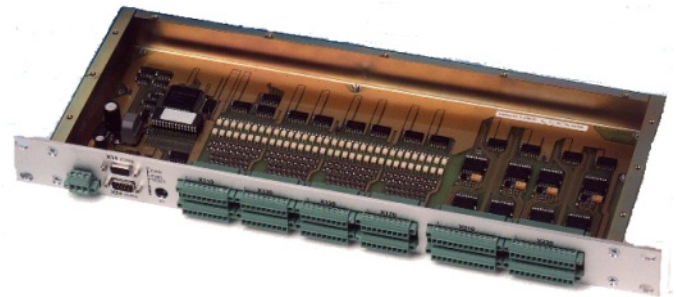
The CAN-Control-I/O is a digital I/O module in a 19" plug-in case. The power supply is 24 V/DC. All connectors are accessible at the front panel.

CAN Interface

The fully ISO11898 compliant module uses an 80C592 microcontroller to control the inputs and outputs. The program code is stored in a Flash EPROM and the parameters in an I²C EEPROM with an optional SRAM available. The coding switch at the front panel allows setting a default value of the CAN identifier with the default bit rate set at a jumper field inside the case with bit rates selected between 10 kbit/s and 1 Mbit/s. The CAN bus signals are not opto-isolated from the microcontroller.

Digital Inputs

Designed for 24 V, the opto-isolated 64 inputs connect via a combicon-style connector. Each 8 inputs use one GND.



CAN-Control-I/O

For further information please visit
<http://www.esd-electronics-usa.com/CAN IO Series.html>

Digital Outputs

The design of the 32 digital outputs allows switching from 24 V to GND with the protection against over-temperature and short circuit, also allowing generation & sending of an error message at the CAN bus. The module monitors the supply voltage of the output drivers by the analog inputs of the 80C592 microcontroller with the determined value read by CAN.

Software Support

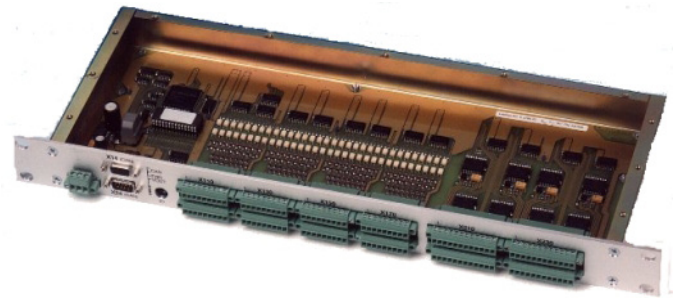
The local software of the module supports the transparent reading of the inputs and the error status. Additionally, the software offers functions for the configuration of the module and makes the output setting possible through writing one identifier.

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challenge

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Technical Specifications

Microcontroller and CAN section:	
Microcontroller:	8xC592, 16 MHz
Memory:	Flash EPROM, I ² C EEPROM, SRAM as an option
CAN interface:	acc. to ISO11898, no electrical isolation, bit rate up to 1 Mbit/s
Digital inputs:	
Number:	64
Input voltage:	max. permissible: -30 V \leq U _{IN} \leq 33 V
Switching threshold:	'0' : U _{IN} < 9 V, '1' U _{IN} > 15 V
Electrical isolation:	by optocouplers, each 8 inputs use one common GND
Digital outputs:	
Number:	32, in groups with 8 outputs each
Driver supply voltage:	UVCC = 9.5 V/DC ... 35 V/DC
Load	(24 V/50 °C): 0.65 A ... 1.2 A

Protection:	against short circuit and overload (thermal)
Error messages:	in case of over current, over temperature, low supply voltage
General:	
Ambient temperature:	0...50o C
Humidity:	max. 90 %, non-condensing
Connector types:	combicon-style connectors
Case dimensions:	19" x 1 HE x 250 mm
Power supply:	24 V/DC, approx. 1.5 W

Order Information

Designation		Order no.
CAN-Control-I/O	64 digital inputs, 32 digital outputs	C.2071.01
CAN-Control-I/O-CON	Set of connector plugs	C.2071.11
CAN-Control-I/O-ME	English users' manual	C.2071.21



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