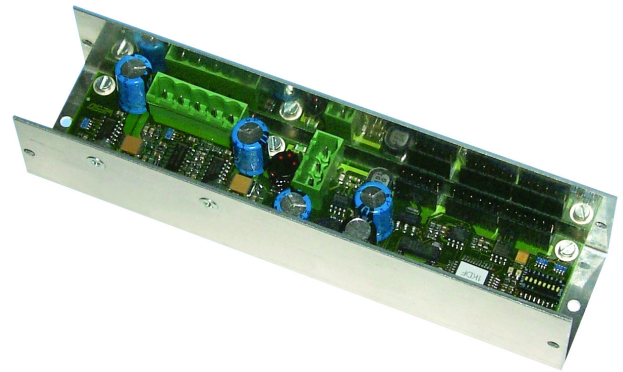




CAN-STEPCON-1H

High Current Stepper Motor Controller



CAN-STEPCON-1H

- 3 A stepper motor output
- Brake output
- 3 limit switch inputs
- Easy mounting
- CiA DS-402 implementation

Full Stepper Control

The module offers full control for one high current stepper motor channel by CiA DS-402 commands. It is equipped with two motor driver bridges that support up to ± 3 A output current. There are three limit switch inputs designed for slotted light switches, and the brake output is equipped with a low side switch.

Intelligent Microcontroller

Equipped with a C505CA microcontroller, the CAN-STEPCON-1H module has an integrated CAN interface with 2 Kbyte EEPROM used to store module configuration data.

LED Display and Coding Switch

LEDs display the CAN status of the module, coding switch sets the bit rate (2 bits) and the Node-ID (6 bits).

For further information please visit
http://www.esd-electronics-usa.com/CAN_IO_Series.html

CAN Bus

The physical CAN layer is fully ISO 11898-compliant and allows data transfer rates of up to 1 Mbit/s.

CAN Protocols

The module operates with CANopen according to CiA-DS-301 and DS-402.

growing with the
challenge

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CAN=STEPCON-1H

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Technical Specifications

Stepper motor interface	
Stepper output	H-bridge with 2 motor driver controllers LMD18245, UVCC = 12 VDC ... 55 VDC, Programmable IOU _T = 36 mA ... 3.0 A
Limit switch inputs	Over-temperature and over-current, (ILIMIT_TYP= 12 A) protection
	3-pin connection for slotted light switches: +5 V power supply output, CMOS Schmitt-Trigger input 74HC86, GND Brake output: low side switch, UVCC = 24 VDC, INOM = 1.4 A, over current protection (ILIMIT_TYP= 7.5 A)
CAN	
CAN controller	C505CA, CAN2.0A (supported by firmware)
CAN interface	Differential, 1 Mbit/s, ISO11898, no electrical isolation of physical layer
Protocol	CANopen DS-301, DS-402

General	
LED display	CAN status, DS-402 status
Ambient temperature	0...50o C
Operating voltage	UVCC - 24 VDC (separate power supply for stepper motor drivers possible)
Case dimensions	40 mm x 35 mm x 160 mm, 6 holes (diameter 3.5 mm) for fastening screws

Order Information

Designation		order no.
CAN-STEPCON-1H	Stepper motor controller, CANopen DS-402	C.2090.01
Manual		
CAN-STEPCON-1H-ME	English user's manual	C.2090.21

