

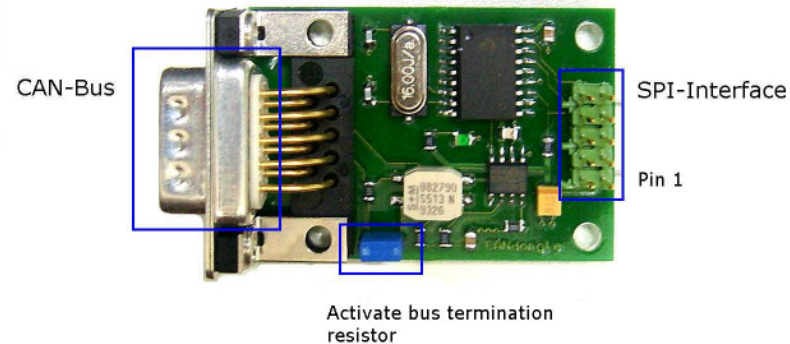
CAN-SPI-Adapter

Data Sheet

AVRcard

Building Blocks for Designers of Digital Products

- Bit rates up to 1Mbit/s
- CAN controller: [Microchip MCP2515](#) @ 16MHz clock
- CAN transceiver: Philips PCA82C251, for 24V systems
- Meets CAN specifications 2.0A (11 bit ID) and 2.0B (29 bit ID)
- Standard 9-pin D-Sub connector for CAN bus, as per CiA DS102-1
- Interfaces to host controller via SPI, with additional interrupt line
- On-board bus termination selectable, optional ESD protection on CAN bus
- Operating voltage: 5VDC
- Mechanical dimensions: 47 x 32mm



Pinout of SPI interface header

	1	2	
+5V	■	●	CS
SCK	●	●	MOSI
MISO	●	●	GND
RES	●	●	INT
(N.C.)	●	●	(N.C.)

An onboard pull-up resistor of 10k is connected to the signals RES and INT.

Art.-Nr. 01.0011

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CAN Bus Interface

Pin	Function
1	
2	CANL
3	GND
4	
5	
6	GND
7	CANH
8	
9	

SPI Interface

Pin	Function	Description	I/O	
1	+5V	Supply voltage	PWR	
2	CS	Chip-Select MCP2515	I	Active low
3	SCK	Clock	I	
4	MOSI	Data to MCP2515	I	
5	MISO	Data from MCP2515	O	
6	GND	Ground	PWR	
7	RES	Reset	I	Active low
8	INT	Interrupt	O	Active low
9				
10				

Board Rev.: 1.0
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