

b-CANCubeMini

Product Overview

The universal usable compact controller is equipped with a performant 32-Bit Microcontroller and offers a flexible I/O configuration. b-CANCubeMini was designed especially for the use in mobile machines and vehicles.

Bus communication

Two CAN-Interfaces e.g. for the connection to various motor control units or CAN control interfaces by b-plus

Multifunctional inputs and outputs

Eleven variable parametrizable inputs and outputs offer the flexibility to be adapted to the particular application

Robust mechanical housing

Proven housing technology (Twin automotive relay) in the mobile area and solid aluminum housing

Free programmable and parametrizable

Programming in C, alternative parametrizable application software for the connectivity to J1939 and CANopen® networks



Illustration 1: b-CANCubeMini

CANopen®

J1939

Highlights



Eleven parameterizable inputs and outputs - adaptable to the application



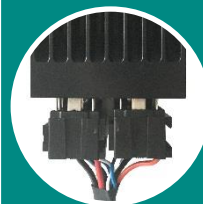
Two CAN interfaces



Free programmable in C



J1939 Slave / CANopen® Slave versions



Robust mechanics and easy mounting



Extended operating temperature range

Technical data

Operating temperature	-40 ... +85°C
Protection Class	IP54
Weight	0,220 kg
Qualification	CE / E-Mark / AEF ISO11783
Dimensions	71 x 73 x 32 mm (WxHxD)
Housing	Aluminum, black anodized
Mounting	Twin automotive relay, 2x 9-pole Back side 2x M3 inner thread Optional: Clamp for rail mount 35mm
Bus interfaces	2 CAN-Bus (High-Speed) according to ISO 11898-2
Power supply	8 ... 32 V DC
Processor	CORTEX M4 32bit
Memory	1024kB Flash, 192kB RAM, 8kB FRAM

Configuration table

Function	5x Input	1x Input / Output	5x Output
Inputs	Voltage 0 .. 10 V	✓	✓
	Voltage 0 .. 32 V	✓	✓
	Current 0 .. 20 mA	✓	✓
	Frequency (<= 30kHz)	✓	✓
	Resistor (<= 5 kOhm)	✓	
	Digital (high / low switching)	✓	
	PWM active ABS-Sensor (7/14mA)	4x	
	Tachometer pulse DTCO (5V)	1x	
Digital (high switching)		✓	
Outputs	Digital output (high / low switching)		✓
	PWM output (20... 250 Hz)		✓
	Current regulated Output (accuracy 2%)		✓
	<ul style="list-style-type: none"> ▪ 3 full-bridge per SW possible ▪ Protection against short circuit and excess temperature ▪ Diagnostic capability ▪ max. 4A per output 		

Order-no.

Name

B20100-CCM-001-0001	b-CANCubeMini
B20100-CCM-002-0001	b-CANCubeMini-JTAG
B20100-CCM-001-0002	b-CANCubeMini J1939-Slave
B20100-CCM-001-0003	b-CANCubeMini CANopen-Slave
B20100-CCM-002-S300	b-CANCubeMini-Starter-Set CAN+JTAG