

# b-CANCubeMini

Compact controller with 2 CAN interfaces

## 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

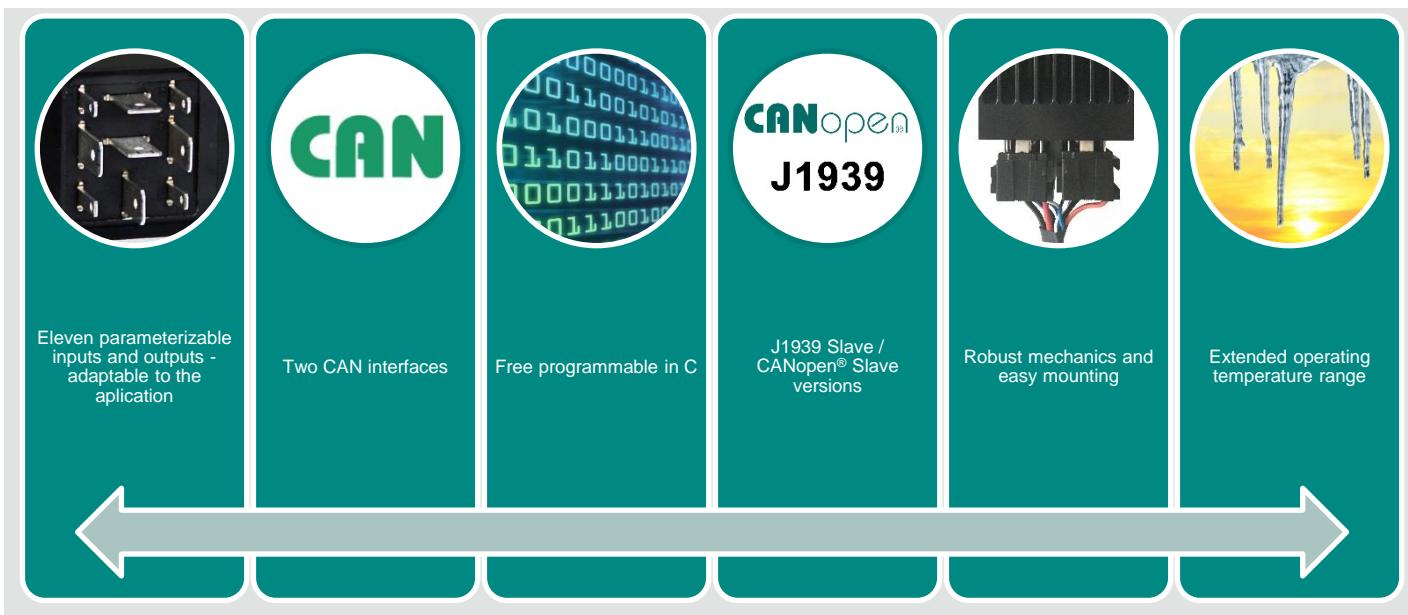


Illustration 1: b-CANCubeMini

**CANopen®**

**J1939**

### Highlights





Compact controller with 2 CAN interfaces

## Technical data

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

## Configuration table

	<b>Function</b>	<b>5x Input</b>	<b>1x Input / Output</b>	<b>5x Output</b>
<b>Inputs</b>	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)		✓	
<b>Outputs</b>	Digital output (high / low switching)		✓	✓
	PWM output (20... 250 Hz)		✓	✓
	Current regulated Output (accuracy 2%)		✓	✓
	<ul style="list-style-type: none"><li>▪ 3 full-bridge per SW possible</li><li>▪ Protection against short circuit and excess temperature</li><li>▪ Diagnostic capability</li><li>▪ max. 4A per output</li></ul>			

<b>Order-no.</b>	<b>Name</b>
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

Alle Daten bei 25°C Umgebungstemperatur, falls nicht anders angegeben. / All data at nominal input and 25° C ambient temperature, if not marked otherwise. ▪ Alle Daten dienen nur Informationszwecken und sind nicht als zugesicherte Eigenschaften aufzufassen. / All data for information purposes only, no assured characteristics. ▪ Technische Änderungen ohne vorherige Ankündigung sowie Irrtümer vorbehalten. / Technical modifications without notice and errors reserved. ▪ Belastung mit Extremwerten über einen längeren Zeitraum kann die Zuverlässigkeit beeinflussen. / Strain with extreme values for a longer period may affect the reliability. ▪ Alle Trademarks und Logos sind Eigentum der jeweiligen Unternehmen. / All trademarks and logos are property of the concerning companies. © b-plus GmbH • Nov-17 • Version: 1.3