b-CANCubeMini Sealed Plus

Product Overview

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

Bus communication

Three CAN-Interfaces e.g. for the connection to various motor control units or CAN control HMIs.

Besides three CAN there are two serial RS232-Interfaces and one RS485 available.

Multifunctional inputs and outputs

20 inputs and outputs offer the flexibility to be adapted to any application. The clamp 15 pin enables a time delayed shutdown of the controller directly controlled from the application.

Robust mechanical housing

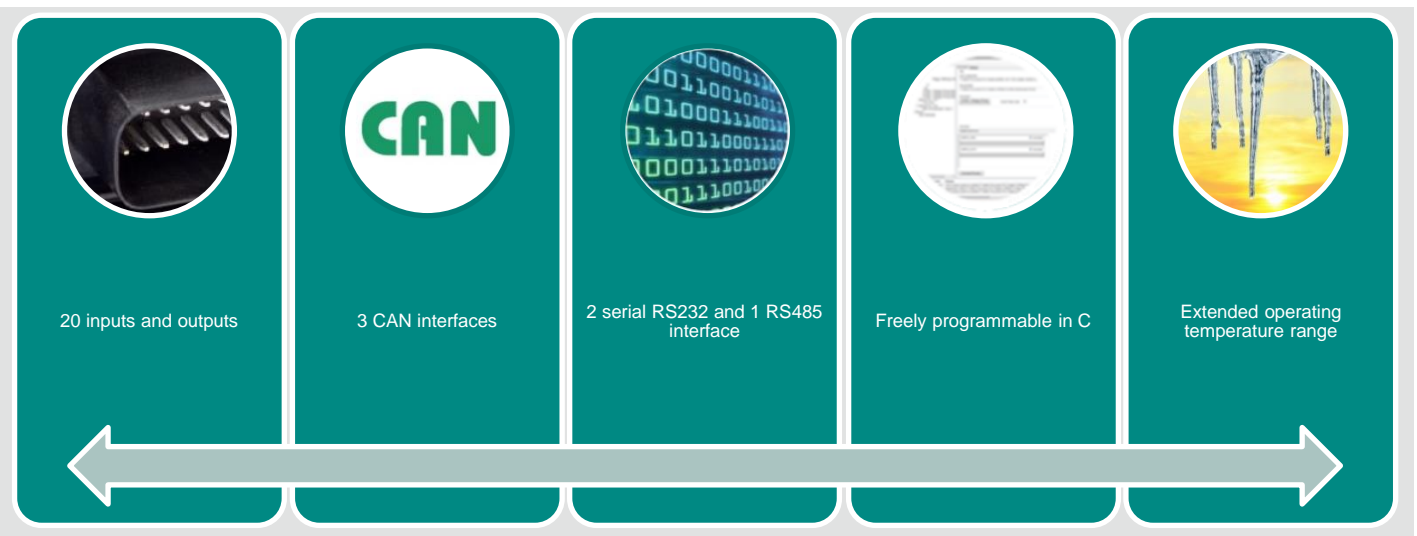A proven housing enables an IP grade up to IP69k.

Free programmable and parametrizable

The controller is programmable in C. With an userfriendly API it is easy to start programming.

Illustration 1: b-CANCubeMini Sealed Plus

Highlights

| 20 inputs and outputs | 3 CAN interfaces | 2 serial RS232 and 1 RS485 interface | Freely programmable in C | Extended operating temperature range |

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Compact controller with 3 CAN interfaces

Technical data

Operating temperature	-40 … +85°C
Protection Class	IP 67 / IP 69K
Weight	0,180 kg
Qualification	CE Mark
Dimensions	128 x 94 x 41 mm (WxHxD)
Housing	Plastic, black
Mounting	Two 7mm mounting straps
Bus interfaces	3 CAN-Bus (High-Speed) acc. ISO 11898-2
	2 Serial RS232 (RxD, TxD, GND)
	1 RS485 (A, B)
Power supply	8 ... 32 V DC
Processor	CORTEX M4 32bit, 100MHz
Memory	1,5MB Flash, 320kB RAM, 16kB FRAM

Configuration table

	Function	
6 x Input	Voltage 0 .. 10 V	✔
	Voltage 0 .. 32 V	✔
	Current 0 .. 20 mA	✔
	Frequency (<= 30kHz)	✔
	Resistor (<= 5 kOhm)	✔
	Digital (high / low switching)	✔
2 x Input	Voltage 0 .. 10 V	✔
	Voltage 0 .. 32 V	✔
	Digital (high / low switching)	✔
8 x Output	Digital (high switching)	✔
	PWM output (20… 250 Hz)	✔
	Current regulated output (accuracy 2%)	✔
	▪ Protection against short circuit and excess temperature ▪ Diagnostic capability max. 2A per output	
4 x	Digital (high switching)	✔

Order-no. / Name

Order-no.	Name
B20300-CMP-103-0001	b-CANCubeMini Sealed Plus
B20300-CMS-000-C003	b-CANCubeMini Connection-Set