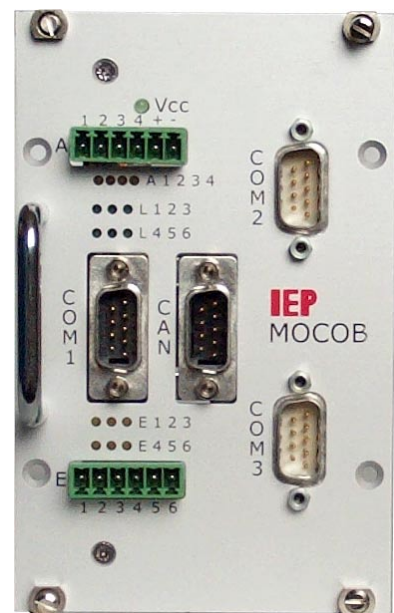
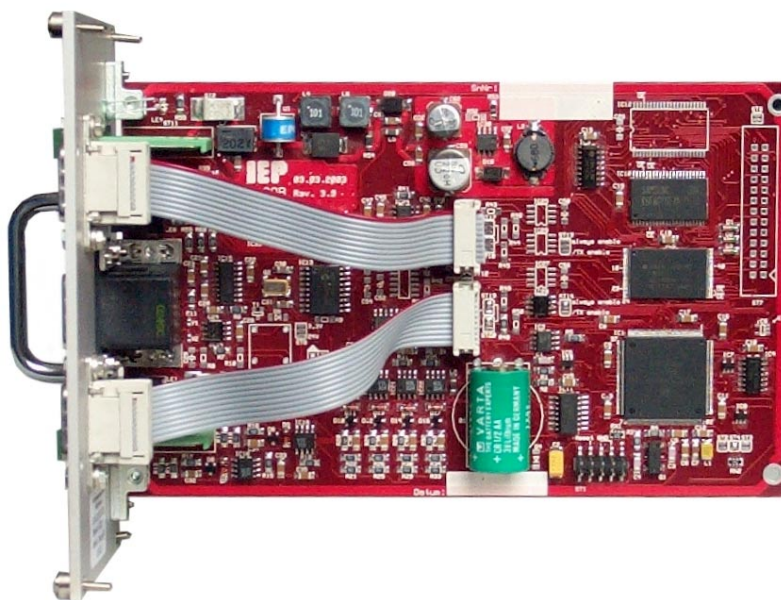


## MOCOB-V3

### Single board CAN controller



Outstanding features of the **MOCOB-V3** are:

- up to 3 serial interfaces RS-232 or RS-422 / RS-485
- CAN Bus with ISO interface
- 6 digital inputs, 24 V, opto-isolated, with capture-, counter- and quadrature decoder function
- 4 High-Side outputs, 24 V / 0.4 A, with PWM

As OEM system the **MOCOB-V3** is used everywhere, where the inexpensive combination of an individual, intelligent measuring system with some additional in- and outputs gives a new level of functionality.

With a supply voltage range from 9-30 V<sub>DC</sub>, simple expandability and flexible programming in ANSI-C, PEARL or according IEC 61131-3 the **MOCOB-V3** is a low-priced and easy-to use tool for the creation of new values.

**Versatile**

**Inexpensive**



---

## Digital Inputs

All 6 digital inputs of the **MOCOB-V3** are opto-isolated, reverse-polarity protected and acquire active signals. The input state is signaled by LEDs, the signals are connected with pluggable Mini-Combicon screw terminals.

The inputs are fed to the TPU of the processor. All special functions of the TPU, like frequency measurement, quadrature-decoder, counter etc., can be used.

## Digital outputs

Each of the 4 high-side outputs delivers up to 24 V / 0.4 A.

The outputs are protected against short circuit and transients generated e.g. by inductive loads. The state of the outputs is signaled by LEDs. The signals are connected with pluggable Mini-Combicon screw terminals.

The outputs are controlled by the TPU of the processor, the special functions of the TPU (PWM, stepping motor control, etc.) are opening up numerous areas of application.

6 LEDs in the front panel are free to use.

## Serial Interfaces

The **MOCOB-V3** is delivered with up to 3 asynchronous, serial interfaces in different configurations:

- 2 x RS-232 5-wire, 1 x RS-232 3-wire
- 1 x RS-232 5-wire, 1 x RS-232 3-wire, 1 x RS-422 / RS-485
- 1 x RS-232 5-wire, 2 x RS-422 / RS-485

Transmission rates to 115 kBaud are possible.

## CAN Bus

The **MOCOB-V3** supports Baud rates of 50 kB upto 1 MB. A simple packet driver is included in the standard scope of supply. The pin assignment of the 9p-SubD-connector complies to the CiA. The **MOCOB-V3** can be used as both master and slave.

## Memory

The **MOCOB-V3** is available in the following configurations:

- 1M / 2M / 4M FLASH, on board programmable, for operating system and application
- 1M / 2M SRAM, buffered by Goldcap capacitor or battery

An expansion port for own extensions offers 8 data- and 6 address lines, 3 decoded chip selects and R/W.

## Size and supply

The **MOCOB-V3** comes as 100x160mm euroboard with a 3 HE, 16 TE front panel. It requires a supply of 9...30 V<sub>DC</sub>. The board is protected from power supply polarity reversal; an EMV protection circuit assures troublefree operation in an industrial environment.

## Programming

The **MOCOB-V3** is based on the Motorola Mikrocontroller MC68332. The realtime operating system RTOS-UH is in the standard scope of supply. Crest-C, PEARL and IEC 61131-3 are available as programming languages.