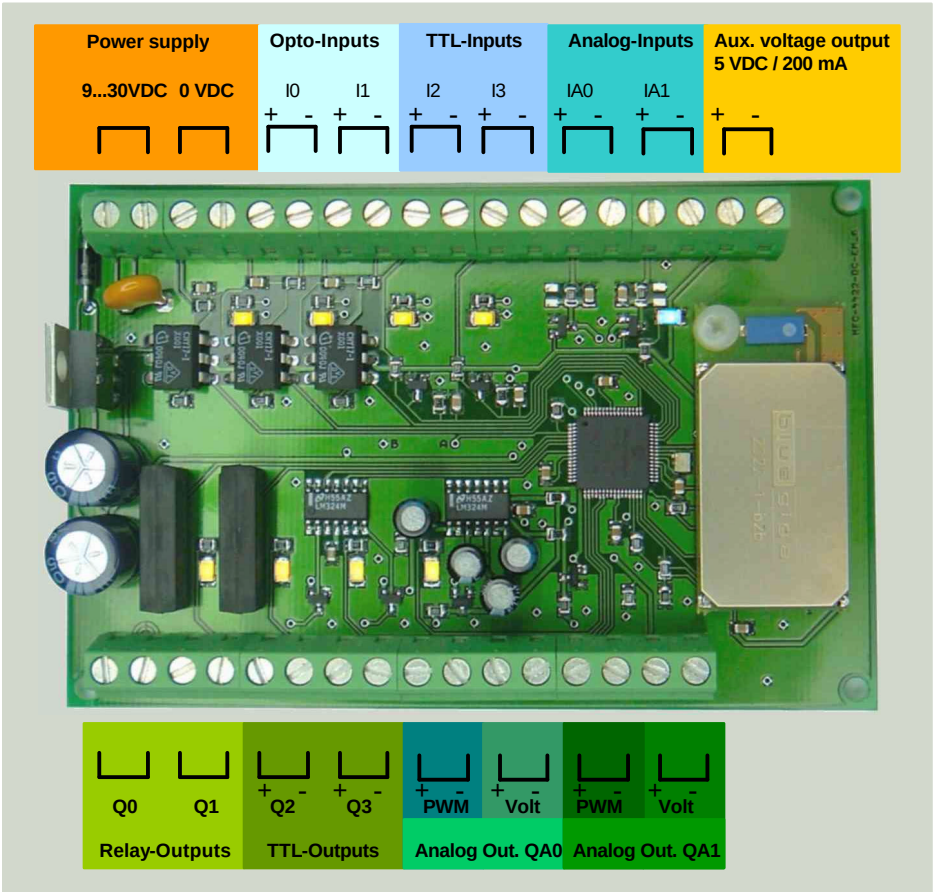
# *MFC 4422-DC/EM*
# *IO-Board with Bluetooth - Interface*
# *Product brief*

## *Characteristics*

The MFC 4422-DC/EM is an IO-board, that allows wireless connections from PC, PDA or mobile phone by means of an integrated bluetooth radio. Transmission ranges of up to 100m can be reached (line of sight). The board is designed for professional integration in industrial machinery, office- or household devices. DIN-rail housings are available, to use the MFC as a “stand-alone” controller. The board can be supplied by a 9V battery. This makes it also most suitable for hobby – applications like robotics or remote control for vehicles. IO-status and connection-state is monitored by LEDs. The LEDs may be switched off by software to save battery power. A time off -delay may be parameterized to switch off the outputs when connection to the board is lost. The board provides integrated functions like counters, ramp-function, time-vector function, PID- and 2-Step controllers and others.

## *Board view*



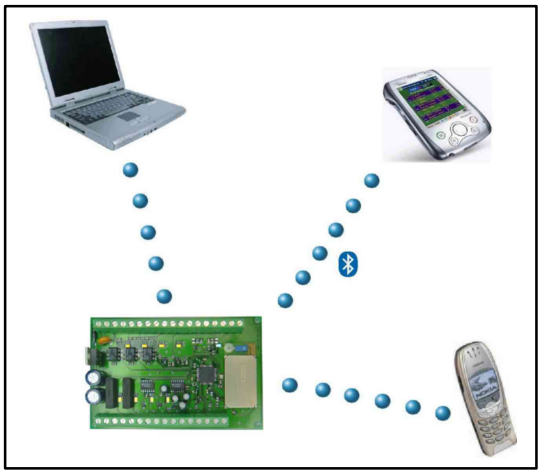

## *Ordering data*

| Type | Description |
|---|---|
| MFC 4422-DC/EM(*) | I/O-board, 4 digital-inputs, 4 digital-outputs, 2 analog-inputs, 2 analog-outputs |

(*) Select desired input-voltage range: 5…12VDC or 13…24VDC (other ranges on request)

## *Connection*

The board is addressed by means of a simple ASCII instruction-set, which can be employed with any common programming language. No specific bluetooth-programming knowledge is required. Messages between board and PC/PDA are exchanged in plain text. The bluetooth-connection is established over a so called *virtual com-port*. Programming of a virtual com port is identical to program a standard hardware serial interface. Visual-basic examples for PC and PDA are delivered on a CD together with the board. Your PC or PDA has to have a bluetooth interface in order to be able to connect with the board.



## *Technical data*

| | |
|---|---|
| **Supply voltage** | 9 ... 30 VDC |
| **Dimensions** | 110 x 72 mm |
| **Digital-Inputs** | 2 Opto-inputs 5...12 VDC or 13…24 VDC / 10 mA<br>(other ranges on request)<br>2 TTL - Inputs 5 VDC / 0,1 mA |
| **Analog-Inputs** | 2 voltage-inputs 0...5VDC / 10 bit (other ranges on request) |
| **Digital-Outputs** | 2 Relay (Reed) – outputs, max. 125 VAC, 60 VDC / 1 A (max. 20W)<br>2 TTL-outputs, 5 VDC / 60 mA (300mW) |
| **Analog-Outputs** | 2 Outputs 10 bit, each with voltage-output 0...5VDC and PWM-output, configurable 2, 8 or 32 kHz . |
| **Bluetooth radio** | Class 1 |
| **Transmission range** | max. 100 m (line of sight) |
| **Supported profile** | Serial Port Profile (SPP) |

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