DATA SHEET

<div align="right">NOVEMBER 2016</div>

STEM SHIELD FOR ARDUINO - KIT
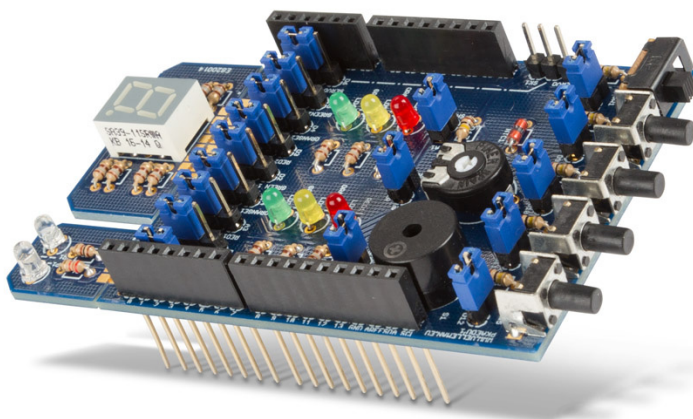### ORDER CODE: KAEDU

Learn how to program a microcontroller with this interactive Arduino® compatible STEM shield kit. It enables you to get immediate feedback of what you have programmed, be it lighting up LEDs, making sounds or playing a memory game. The STEM shield even has sensors so the possibilities are endless.

Accompanied with a suitable edu curriculum - coming soon!

FEATURES

- temperature sensor
- light sensor
- 7-segment display
- 2 stoplight simulations (6 LEDs)
- 4 tactile buttons
- 1 slide switch
- 1 potentiometer
- 1 sounder
- 1 servo connection
- 1 infrared LED
- all element dules are 'disconnectable' so the Arduino pins can by used freely
- a 'line follower' sensor can by made with the IR LED and light sensor
- the 7- segment and line follower module can be seperated from the main PCB
- fully Arduino compatible

OPTIONS

VELLEMAN NIBBLE - KA0 or VMA0 (microcontroller)

The STEM SHIELD was developped in cooperation with:

bernardustechnicum
accent op élk talent

Introducing the KAEDU: STEM shield for Arduino!

Use the KAEDU: STEM shield to explore the world of Arduino, sketches, electronics and many more.
This is the perfect beginners shield to use when following a STEM education.

Speaker!
Create loopy tunes or a simple synth with the built-in speaker

ON/OFF
All modules can be connected and disconnected by means of a shunt

Detachable modules!
Line-tracker and 7 segment module are detachable for easy prototyping

Buttons and switch!
4 Tactile buttons and a switch to experiment with

Line-Tracker!
An infrared emitter and a phototransistor can become a line-tracker module with the right software

Trimmer!
Learn how to read an analog value

Temperature sensor!
Use the NTC as a temperature sensor

7 segment display!
Learn how to control a 7 segment display

Servo motor output!
Control a servo motor, just plug and play

2 redlight simulators!
Simulate real-life redlight situations