# Arduino MKR Zero module ABX00012 - SAMD21-with connectors

# Minicomputer User Manual

ARD-10051

Arduino MKR Zero module ABX00012 - SAMD21-with connectors

## 1. Usage Information and Warnings

1. The device should operate in conditions consistent with its intended use.
2. Avoid improper connection of wires. Incorrect connection may lead to short circuits and damage to the equipment.
3. To ensure proper operation of the equipment, provide it with an appropriate power source according to its specifications.
4. Do not directly touch unprotected parts of the equipment, as this may lead to short circuits or the transfer of electrostatic charges.
5. Operating in high humidity environments can affect the operation of the electronics, leading to damage and errors in sensor readings.

## 2. Unpacking and Assembly

1. **Unpacking** - checking the completeness of the set and the condition of the elements.
2. **Connection** - plugging in the necessary elements to the minicomputer's connectors.
3. **Operating System** - uploading the operating system to the data carrier.
4. **Startup and Configuration** - configuring the minicomputer settings.

## 3. Intended Use

The product is intended for use within the parameter ranges specified by the manufacturer and should be used only by qualified personnel trained to operate this product. Before each use, check the product for damage and do not use it if any defects are found. Failure to follow the manufacturer's guidelines may cause potential product damage.

## 4. Technical Specification

| | |
|---|---|
| **Product code** | ARD-10051 |
| **EAN13** | 7630049200470 |
| **Weight:** | 0.022 kg |
| **Dimensions** | Width:6, Height:8.2, Depth:2.4 cm |
| **UC - Microcontroller** | SAMD21 |
| **UC - Digital pins** | 22 |
| **UC - PWM** | 12 |

| | |
|---|---|
| **UC - analog in** | 7 |
| **UC - freq** | 48 MHz |
| **UC - Flash** | 256 kB |
| **UC - RAM** | 32 kB |
| **UC - USB** | microUSB |
| **UC - Core** | 32-bit ARM Cortex M0 |
| **UC - A/C** | 12-bit |
| **UC - C/A** | Yes |
| **UC - microSD** | yes |
| **UC - core** | 1. Single Core |
| **UC - UART** | yes |
| **UC - I2C** | yes |
| **UC - SPI interface** | yes |
| **Voltage to** | 3.7 V |
| **Voltage from** | 5.0 V |
| **Voltage output from** | 3.3 V |
| **Output voltage to** | 3.3 V |
| **Nominal output voltage** | 3.3 V |
| **Niebezpieczne** | Equipment |

## 5. Contact Information

For product-related questions, please contact an authorized service center or the manufacturer:

- **Importer:** Botland. B. Derkacz Sp. K.
- **Address:** Gola 25, 63-640 Bralin
- **Phone Number:** 62 593 10 54
- **Website address:** www.botland.store