Features enclosure and pcb:

- milled cab rail enclosure (6 modules)
- for EN50022 DIN rails
- Optional Integrated 5V/1.7A voltage regulator (Vin 9...35V DC)
- Slot for Arduino MKR board or Portenta H7
- Slot for Arduino MKR shield
- Exclusive slot for MKR ETH (Ethernet) shield
- Integrated prototyping area
- 2x 3-pin terminal blocks for prototyping
- Marked and connected GPIO & power pins beside the proto area
- 1x 2-pin terminal block for power supply
- removable protections for terminals
- for Arduino MKR series and Arduino Portenta H7 only
Enclosure:
- Outside dimensions: 105mm x 90mm x 65,3mm (W x H x D)
- Breadboard area: 78mm x 25mm (W x H)
- Material: PS
- Finish top shell: light grey
- Finish bottom shell: light grey

Features optional voltage regulator:
- Input voltage: 15 – 30V DC
- Output voltage: 5V / 1.7A DC

Applications:
- Home automation
- Industrial control
- Door access and door control
- Temperature controls and heating systems
- Education
- Internet of Things (IoT)
## Part number table:

<table>
<thead>
<tr>
<th>Part-No.</th>
<th>Version</th>
<th>Features</th>
</tr>
</thead>
</table>
| ABXMKBT    | Basic   | - transparent lid  
- without parts for voltage regulator                      |
| ABXMKBG    | Basic   | - grey lid       
- without parts for voltage regulator                        |
| ABXMKBO    | Basic   | - lid for OLED shield (milled)                              
- without parts for voltage regulator                         |
| ABXMKST    | Standard| - transparent lid  
- including voltage regulator parts                           |
| ABXMKSG    | Standard| - grey lid       
- including voltage regulator parts                            |
| ABXMKSO    | Standard| - lid for OLED shield (milled)                              
- including voltage regulator parts                            |

- Grey lid
- Lid for OLED (transparent + milled)
- Transparent lid
Features main board:

1. Terminals power supply
2. Terminals for proto board
3. Slot for Arduino MKR board
4. Slot for Arduino MKR shield
5. Exclusive slot for MKR ETH shield
6. Voltage regulator (9..35V Vin / 5V Vout)
7. Breadboard / proto board area
8. GPIO pins for proto board
9. Power pins (Vin, 5V, 3,3V, GND) for proto board
10. Reset button
Different ways for power supply of ArduiBox MKR:

1.) Via the USB socket of the MKR board

2.) Via the terminal K9 (5V DC) for basic version only:

   ![Diagram of terminal K9 with Bridge Jumper J3](image)

   Note: J3 will connect K9 directly with the internal 5V of the MKR board

3.) Via the terminal K9 (9...35V DC) for **standard version** only:

   ![Diagram of terminal K9 with Bridge Jumper J3](image)

   Note: With assembled voltage regulator only. Leave J3 open in this case!