Features enclosure and pcb:

- milled **cab rail enclosure** (4 modules)
- for EN50022 DIN rails
- Optional Integrated **5V/1,7A voltage regulator** (Vin 9...35V DC)
- Integrated **prototyping area**
- 3x 2-pin terminal blocks for prototyping
- Marked and connected GPIO & power pins beside the proto area
- 1x 2-pin terminal block for power supply
- For **Wemos D1 Mini** (ESP8266) and **ESP32 NodeMCU-32S** only
- removable protections for terminals
- Opening for micro USB socket on top side
- Available with transparent lid or grey lid
Enclosure:
- Outside dimensions: 70mm x 65mm x 90mm (W x H x L)
- Breadboard area: 74mm x 45mm (W x H)
- Material: PS
- Finish top shell: light grey
- Finish bottom shell: light grey

Features optional voltage regulator:
- Input voltage: 9 – 35V DC
- Output voltage: 5V / 1.7A DC

Applications:
- Home automation
- Industrial control
- Door access and door control
- Temperature controls
- Education
- Internet of Things (IoT)
- Industry 4.0
- Data acquisition
- Gateways
Compatibility:

D1 Mini
Pinout Diagram

NodeMCU-32S
PINOUT

NOTE:
All pin supported PWM and I2C
Pin current 6mA (Max. 12mA)
Features main board:

1. Terminals power supply
2. Header for ESP32
3. Header for Wemos D1 Mini
4. Voltage regulator
5. Breadboard / proto board area
6. Terminals for proto board
7. GPIO pins for proto board
8. Power pins (5V, 3.3V, GND) for proto board
### Part number table:

<table>
<thead>
<tr>
<th>Part-No.</th>
<th>Version</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABXEPEB</td>
<td>Basic</td>
<td>- transparent lid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- without parts for voltage regulator</td>
</tr>
<tr>
<td>ABXEPS</td>
<td>Standard</td>
<td>- transparent lid</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

**Diagram:**
- **grey lid**
- **transparent lid**
Different ways for power supply of ArduiBox ESP:

1.) Via the Micro-USB socket of the ESP module

2.) Via the terminal K4 (5V DC) for **basic version** only:

   Note: J1 will connect K1 directly with the internal 5V of the ESP module

3.) Via the terminal K4 (9...35V DC) for **standard version** only:

   Note: With assembled voltage regulator only. Leave J1 open in this case!