Current Status of the 96Boards Mezzanine Ecosystem

Thore Krug
Open Hardware Enthusiast
Introduction to the 96Boards Mezzanine

Arduino Shield  
5V

Raspberry Pi Hat  
3,3V

96Boards Mezzanine  
1,8V
Available Interfaces

- **High Speed:**
  - USB
  - MIPI DSI
  - SD or SPI
  - MIPI CSI-2

- **Low Speed:**
  - SPI
  - I2C x2
  - I2S
  - GPIO x12
  - Reset & Power
96Boards Mezzanine Form Factors
# Mezzanine Header Support Matrix

<table>
<thead>
<tr>
<th>Product</th>
<th>Low Speed Header</th>
<th>High Speed Header</th>
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</thead>
<tbody>
<tr>
<td>Consumer Edition</td>
<td></td>
<td></td>
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<tr>
<td>Consumer Edition Extended</td>
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<tr>
<td>IoT Edition</td>
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<tr>
<td>IoT Edition Extended</td>
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<tr>
<td>Enterprise Edition</td>
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<tr>
<td>SOM Edition (Carrier)</td>
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Stackability

96Boards CE Edition

96Boards CE Extended Edition
Current Mezzanines

- Camera Mezzanines
- Security Mezzanines
- Connectivity Mezzanines
- Mezzanines for Maker
- FPGA Mezzanines

https://96boards.org/products/mezzanine/
Community Member Mezzanines

Proto Mezzanine

GPS Mezzanine CE

RoBo Mezzanine
Community Member Mezzanines

Grove Mezzanine

GPS Mezzanine

Crypto Mezzanine
Community Member Mezzanines

UART Mezzanine
- Drop in replacement
- CI Compatible
- USB C
- 2.54mm Breakout
Mezzanine Initiative

- Open Source Templates
- BSD License

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<thead>
<tr>
<th>CAD</th>
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<tbody>
<tr>
<td>Kicad</td>
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https://github.com/96boards/mezzanine-community
How to contribute

- Bi-Weekly Zoom Call 16:00 UTC
- Github Repository https://github.com/96boards/mezzanine-community
- 96Boards Forum https://discuss.96boards.org/
- 96Boards Discord https://discord.com/invite/x5uMn5d
96Boards CE V2

High Speed:
- 2x CSI 2-4 Lanes
- 2 Lane PCIE
- USB 3.0
(Signals Shared across HS1&HS2)

Low Speed:
- CAN
- Analog Audio
Thank you

Accelerating deployment in the Arm Ecosystem