96Boards Mezzanine board with STM32F446 MCU and sensors

Features

• Based on STM32F446 MCU
  ARM® Cortex® -M4 180MHz in LQFP100 package
• Compliant with the 96Boards CE standard
• Two types of extension resources:
  – 96Boards high/low-speed connectivity
  – Arduino™ Uno Revision 3 and Grove™ connectivity
• ARM® mbed™-enabled (see http://mbed.org) planned for the first quarter of 2016
• Integrated MEMS sensors:
  – 9-axis
    accelerometer/gyroscope/magnetometer
  – pressure, microphone
• On-board ST-LINK/V2-1 debugger/programmer
• USB re-enumeration capability:
  – Virtual Com port
  – Mass storage
  – Debug port
• Supported by wide choice of Integrated Development Environments (IDEs) including IAR™, Keil®, GCC-based IDEs, ARM® mbed™ online

Description

The 96Boards Mezzanine board with the STM32F446 MCU (B-F446E-96B01A) enables users to prototype systems that are aware of their environment, thanks to the embedded sensors for movement, pressure and sound. It can directly be plugged on top of the 96Boards CE cards and supports multiple expansion possibilities through the Arduino™ Uno Revision 3 or the Grove™ connectivity. The integrated ST-LINK/V2-1 debugger facilitates software development, drag-and-drop programming and provides a direct access to the ARM® mbed™ on-line resources.

1. Picture not contractual
# Revision history

Table 1. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-Dec-2015</td>
<td>1</td>
<td>Initial release.</td>
</tr>
<tr>
<td>07-Jan-2016</td>
<td>2</td>
<td>Updated Features.</td>
</tr>
<tr>
<td>15-Jul-2016</td>
<td>3</td>
<td>Updated picture (new revision of the PCB).</td>
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