Microphone coupon board based on the MP34DT01-M digital MEMS microphone

Description
The STEVAL-MKI155V3 board is a daughterboard to be used with the STEVAL-MKI126Vx (Smart Voice) kit, containing 4 MP34DT01-M digital MEMS microphones. The coupon concept allows easy performance testing of ST MEMS microphones. When connected to the Smart Voice board, it is possible to detach the single PCBs hosting each microphone.

Features
- 4xMP34DT01-M top port digital MEMS microphones
- Functions as a daughterboard for use with STEVAL-MKI126Vx kit
- V supply from 1.64 to 3.6 V
- 120 dBSPL acoustic overload point
- Omnidirectional sensitivity
- PDM single-bit output
- 61 dB of SNR
- Sensitivity -26 dBFS
- RoHS compliant
Figure 1: STEVAL-MKI155V3 circuit schematic
2 Revision history

Table 1: Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Rev</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-Oct-2014</td>
<td>1</td>
<td>First release.</td>
</tr>
</tbody>
</table>
IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2014 STMicroelectronics – All rights reserved