Evaluation platform based on the BlueNRG-M2SA module

Features

- Bluetooth LE evaluation board embedding the BlueNRG-M2SA certified module based on the BlueNRG-2 Bluetooth low energy system-on-chip
- Associated BlueNRG-2 development kit software package (STSW-BLUENRG1-DK)
- Up to +5 dBm available output power
- Bluetooth low energy v5.0 compliant, supports master, slave and simultaneous master-and-slave roles
- Integrated balun with matching network and harmonics filter
- Three user LEDs and two user buttons
- 3D digital accelerometer and 3D digital gyroscope
- MEMS pressure sensor with embedded temperature sensor
- Battery holder
- JTAG debug connector
- USB to serial bridge for I/O channel with the BlueNRG-2 device
- Jumper to measure BlueNRG-M2SA current
- RoHS and WEEE compliant

Description

The STEVAL-IDB008V1M evaluation platform is based on the Bluetooth v5.0 compliant BlueNRG-M2SA module with embedded BlueNRG-2 low power Bluetooth LE SoC, able to function as a master or slave, or in a simultaneous master and slave role.

The STEVAL-IDB008V1M provides a set of hardware resources for a wide range of application scenarios: sensor data (accelerometer, pressure and temperature sensors), remote control (buttons and LEDs) and debug message management via USB virtual COM.

Three power options are available (USB only, battery only and external power supply plus USB) for application development and testing flexibility.
Figure 1. STEVAL-IBD008V1M circuit schematic (1 of 3)
Figure 2. STEVAL-IIBD008V1M circuit schematic (2 of 3)
### Revision history

**Table 1. Document revision history**

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Changes</th>
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<tbody>
<tr>
<td>08-May-2020</td>
<td>1</td>
<td>Initial release.</td>
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<tr>
<td>20-May-2020</td>
<td>2</td>
<td>Updated cover page image.</td>
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<td></td>
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<td>Minor text changes.</td>
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