EVB-STRADA431 evaluation kit

Description
The EVB-STRADA431 allows to evaluate the performance of STRADA431 device, a 24 GHz transceiver (1 TX / 3 RX) MMIC for automotive radar sensor applications.

EVB-STRADA431 uses: four 2.92 mm or 2.4 mm SMA connectors for RX inputs and TX output; seven 3.5 mm SMA connectors for RX IF output signals, dividers output, VCO fine tuning voltage, test tone clock signal; a test point to read the analog MUX output (temperature or power sensor output); 5-pin male pin header connectors for SPI signals.

Table 1. Device summary

<table>
<thead>
<tr>
<th>Order code</th>
<th>Reference</th>
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<tbody>
<tr>
<td>EVB-STRADA431</td>
<td>EVB-STRADA431 evaluation board</td>
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</tbody>
</table>

Features
- EVB-STRADA431 evaluates STRADA431 performance, 24 GHz transceiver (1 TX / 3 RX) MMIC for automotive radar sensor applications
- EVB-STRADA431 GUI software programs all IC functions from PC using a FTDI-C232HM USB interface
1  System requirements

1.1  Evaluation kit contents

- EVB-STRADA431 evaluation board
- FTDI-C232HM USB interface

1.2  Additional equipment

- Spectrum analyzer
- RF signal generator
- Signal source analyzer (optional)
- Signal generator
- Oscilloscope
- Power supply
- External PLL
- PC (Windows 7® OS)

1.3  Required documents

- STRADA431 data sheet (see Section A.1: Document reference)

1.4  Required software

- EVB-STRADA431 GUI software
Appendix A  Further information

A.1  Document reference

- 24 GHz transceiver MMIC for automotive radar sensor (Datasheet, DocID029066).
## Revision history

Table 2. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-Mar-2016</td>
<td>1</td>
<td>Initial release</td>
</tr>
<tr>
<td>12-Jan-2017</td>
<td>2</td>
<td>Updated <strong>Features:</strong> Updated cover image.</td>
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<tr>
<td></td>
<td></td>
<td>Updated <strong>Description:</strong> “TX output ten” changed by “TX output seven”</td>
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