



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.

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

Table 1. Device summary

Order code	Reference
EVB-STRADA431	EVB-STRADA431 evaluation board

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

Date	Revision	Changes
17-Mar-2016	1	Initial release
12-Jan-2017	2	Updated <i>Features</i> : Updated cover image. Updated <i>Description</i> : "TX output ten" changed by "TX output seven"

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