# AISG On-Off Keying Coax Modem Transceiver Reference Design

TIDesigns

(ACTIVE) TIDA-00062

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## Description

This reference design uses the SN65HVD62 and is designed to be compliant with Antenna Interface Standards Group v2.0 specification. It has two transceivers and as such can be used to evaluate the transmit or receive channels independently or to evaluate both transceivers together in a system configuration.

## Features

- Wide input dynamic range of -15dBm to +5dBm for Receiver
- Power delivered by the driver to the Coax can be adjusted from 0dBm to +6dBm
- AISG compliant output emission profile
- Supports up to 115kbps signaling
- 3.0V to 5.5V supply range
- This reference design is orderable

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

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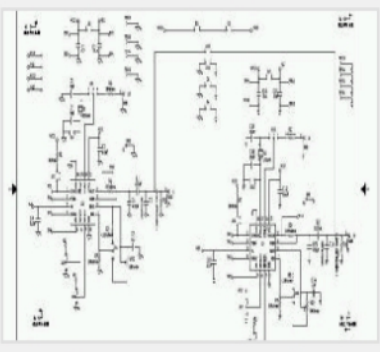
## Schematic/Block Diagram

Quickly understand overall system functionality.



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## Test Data

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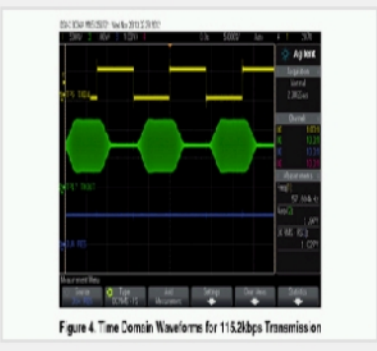


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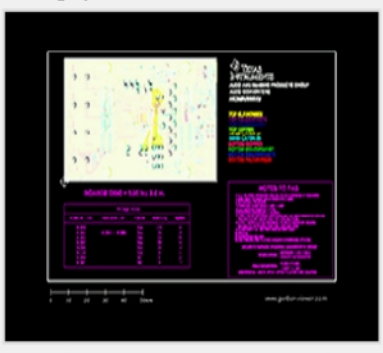
## Design Files

Download ready-to-use system files to speed your design process. Get Viewer.



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## Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

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Order samples, get tools and find more information on the TI products in this reference design.

| Part Number | Name | Product Family | Sample & Buy | Design Kits & Evaluation Modules |
|---|---|---|---|---|
| SN65HVD62 | AISG 2.0 On-Off Keying Coax Modem Transceivers | Other Interface | Sample & Buy | View Design Kits & Evaluation Modules |
| SN65HVD63 | AISG 3.0 On-Off Keying Modem Transceiver | Other Interface | Sample & Buy | View Design Kits & Evaluation Modules |

## CAD/CAE symbols

| Part # | Package \| Pins | CAD File (.bxl) | STEP Model (.stp) |
|---|---|---|---|
| SN65HVD63 | VQFN (RGT) \| 16 | Download | - |

Texas Instruments and Accelerated Designs, Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the free download.

Step 2: Download the Symbol and Footprint from the CAD.bxl file table.

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## Technical Documents

### User guides (1)

| Title | Abstract | Type | Size (KB) | Date | Views |
|---|---|---|---|---|---|
| TIDA-00062 Test Results | | PDF | 352 | 26 Sep 2013 | 63 |

### Design files (3)

| Title | Abstract | Type | Size (KB) | Date | Views |
|---|---|---|---|---|---|
| TIDA-00062 Gerber | | ZIP | 554 | 26 Sep 2013 | 19 |
| TIDA-00062 BOM | | PDF | 29 | 26 Sep 2013 | 142 |
| TIDA-00062 Schematic | | PDF | 48 | 26 Sep 2013 | 125 |

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