Read Me First

Never stop thinking



TDA7255V - UWLink© Evaluation Kit

Universal Wireless Link

Dear Customer,

Thank you for working with Infineon Wireless Control products!

This UWLink Evaluation Kit will support you in testing Infineon's TDA7255V-Transceiver product and to develop and debug your Wireless Control application. Before you can experience the full capabilities of this kit you have to download the latest package of complementary software and documentation from the Infineon Technologies www-pages: **www.infineon.com/TDA7255V**

In this kit you will find a pair of TDA7255V-UWLink combos (Extension-Board plus Mainboard) to establish a bidirectional wireless link.

The TDA7255V-UWLink-Extension-board may be used in three alternative scenarios:

- Using the UWLink Mainboard as an interface to your Windows PC: The TDA7255V-Explorer Windows Software may be used to set the configuration registers and to read out the status registers of TDA7255V.
- Using the UWLink Mainboard as an open programmable XC886 microcontroller board: You can implement your own TDA7255V-Transceiver demonstration or application software using Keil's µVision 4 programming environment. A specific TDA525x/TDA725x UWLink library and SW-framework (low level SPI interface example code) simplify your work.
- Using the TDA7255V UWLink Extension-Boards as stand-alone-modules with any other embedded system environment.

The hardware design of the TDA7255V-UWLink Extension-Board is documented in the TDA7255V data sheet. On the next page you will find a short step-by-step guideline to start the UWLink- TDA7255V Extension-Board together with the UWLink Mainboard. We strongly recommend reading the User Guides of the UWLink Mainboard before you start operating this UWLink combination for the first time: w**ww.infineon.com/UWLink**

For further support please contact your local Infineon Distributor, your responsible Infineon Sales Office, contact us directly at **wirelesscontrol@infineon.com** or call us at **0(0)800 951 951 951.** This is an international toll free phone number. In case this service is not supported in your country, you can find a complete list of Infineon service phone numbers at **www.infineon.com/customercarecenter**.

Please, don't forget to take notice of the legal disclaimer sheet.

We wish your development work using the TDA7255V-Transceiver will be successful.

Your Infineon Wireless Control Team

www.infineon.com/TDA7255V www.infineon.com/UWLink

Kit Content

- 2 UWLink TDA7255V Extension-Boards
- 2 UWLink Mainboards
- 2 antennas, ¼ lambda - reduced size
- 2 sample ICs TDA7255V
- TDA7255V product brief
- Legal disclaimer sheet

Software and further documentation related to this TDA7255V kit available for download at **www.infineon.com/TDA7255V**

- TDA7255V Explorer SW package (incl. DAS and SIB Server)
- TDA525x/TDA725x UWLink library and SW-framework
- TDA7255V evaluation kit – user manual
- TDA7255V data sheet
- TDA7255V application notes

Software and further documentation related to the UWLink tool concept available for download at **www.infineon.com/UWLink**

- UWLink Mainboard User Guide
- SILink System Interface Link SW
- UWLink Mainboard test SW

Order number of this TDA7255V-UWLink kit:

- SP000745294

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Step-by-Step Quick Start Guide

Please follow this step-by-step approach when you start up your TDA7255V-UWLink-Set for the first time:

Important Note: The TDA7255V Explorer Windows Software requires the DAS (Device Access Server) and the SIB-Server services running in the background. Both are automatically installed while following the steps below.

Step 1 – Installation of the TDA7255V-Explorer

- Go to **www.infineon.com/TDA7255V** and download the latest TDA7255V-Explorer Installation Package (e.g. **TDA7255V_Explorer_E1.1.05.zip**).
- Extract the ZIP-archive to a temporary directory on your PC.
- Open the sub-directory **1_DAS** and execute **DAS_setup.exe** and follow the on-screen instructions.
- Execute **TDA7255V_Explorer_E1.1.05.exe** and follow the on-screen instructions.
- Execute the **NextGenLoader** and start the installation of the SIB-Server by just double-clicking at the SIB Server button (see Figure 1) and follow the on-screen instructions.
- The TDA7255V-Extension-Board can be supplied by the USB-connector via the UWLink-Mainboard by closing jumper JP4 (see Figure 2). Alternatively, the TDA7255V-Extension-Board may be supplied by an external power supply via connector X3 (JP4 must be open).
- Connect the TDA7255V Extension-Board to the UWLink Mainboard and connect the UWLink Mainboard to the USB-connector of your PC.
- Start the TDA7255V Explorer by double-clicking at the TDA7255V Explorer button (see Figure 1).
- Click to **OPEN** in the **Wizard**-tap to start the communication (see Figure 3).

Step 2 – Usage of the TDA7255V-Explorer

- Now you are ready to configure the TDA7255V: Either by changing the settings in the **Wizard**-tap of the TDA7255V-Explorer (see Figure 3), or by changing the bit values of each register directly in the **Registers**-tap (see Figure 4).
- Furthermore you can read the **SFR Status register** and **SFR ADC register** at the **Explore**-tap. See the **RSSI Voltage and Vcc Measurement**- and **Data valid decision**-fields in the **Explore**-tap (see Figure 5).
- Closing the jumper JP2 (see Figure 2) a PRBS9 sequence with variable data rate can be applied to the data input. See the **Test transmission**-field in the **Explore**-tap (see also Figure 5).
- Closing the jumper JP5 (see Figure 2) the TDA7255V can be switched between **Power-Down-Mode** and **Device-Active-Mode** by the TDA7255V-Explorer. See the **Power Down and Data Detect** pin-field in the **Explore**-tap (see Figure 5).



Figure 1

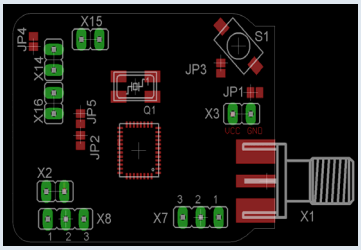


Figure 2

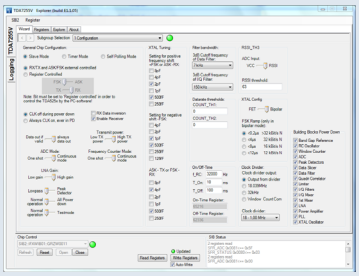


Figure 3

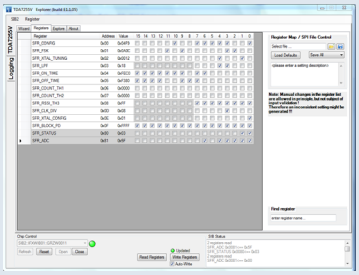


Figure 4

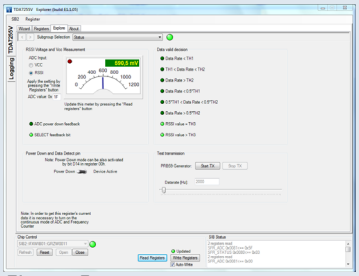


Figure 5

How to reach us:
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