Manuals+ — User Manuals Simplified.

BROADCOM AFBR-S50-FEK Evaluation Kit for Time Of Flight Sensor Modules User Guide

Contents

BROADCOM AFBR-S50-FEK Evaluation Kit for Time Of Flight Sensor Modules

Getting Started

Evaluation Kit Overview
The Broadcom® AFBR-S50 family evaluation kit is composed of the following components:

- STM32F401RE MCU evaluation board
- Functional sensors:
    - AFBR-S50MV85I
    - AFBR-S50MV85G
    - AFBR-S50MV68B
    - AFBR-S50LV85D
    - AFBR-S50LX85D
- Adapter board, with socket included
- USB-mini to USB-typeA cable
- Information cards with an overview of key sensor parameters, key dependencies, and important links
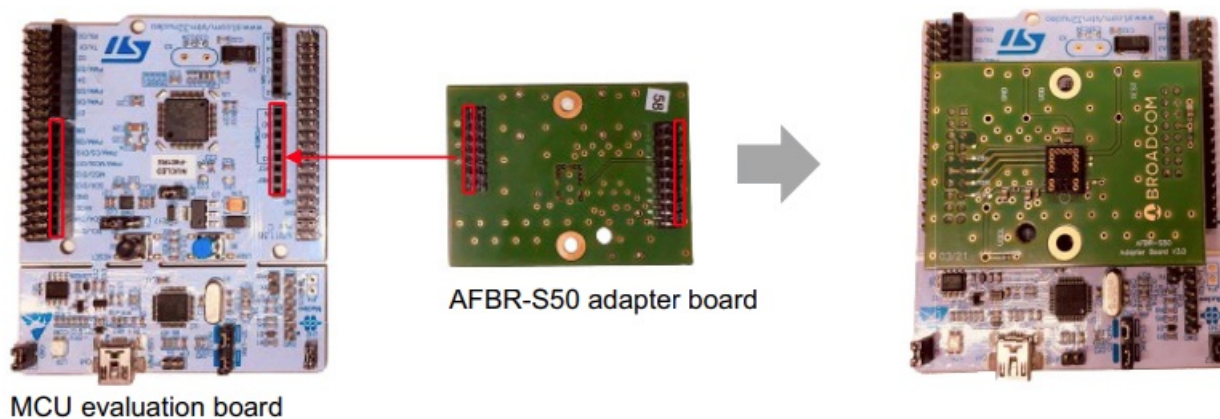
Figure 1: Evaluation Kit Components

Hardware Assembly

1. Connect the adapter board and the MCU evaluation board at the Arduino pinout.
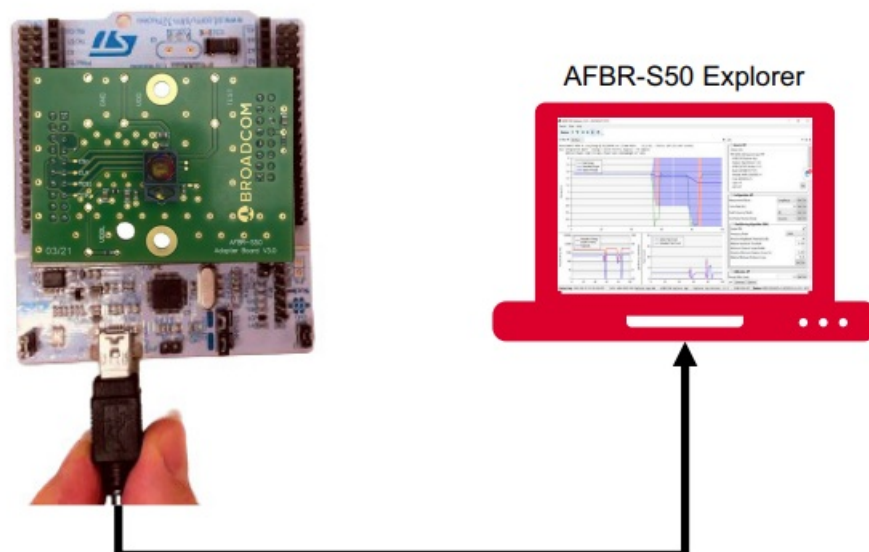
Figure 2: Connect the Adapter and Evaluation Boards

AFBR-S50 adapter board

MCU evaluation board

2. Ensure the sensor orientation is correct. Plug the sensor into the socket on the adapter board.

Figure 3: Sensor Connection

Sensor bottom view

3. Use the USB cable to connect the evaluation board to the PC.

Figure 4: Connect the Evaluation Board to a PC

AFBR-S50 Explorer

NOTE: For more information regarding the use of AFBR-S50 Explorer, refer to the AFBR-S50 User Guide at

docs.broadcom.com/docs/AFBR-S50-EK-UG.

Related Documents

The references in the following table may be used in conjunction with this document.
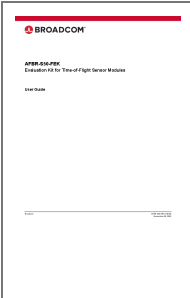
Table 1: References

Document Name	Document Number	Source
AFBR-S50 User Guide	AFBR-S50-EK-UG	docs.broadcom.com/docs/AFBR-S50-EK-UG

Revision History

AFBR-S50-FEK-UG100; November 30, 2023
Initial release.

Documents / Resources

BROADCOM AFBR-S50-FEK Evaluation Kit for Time-of-Flight Sensor Modules User Guide	**BROADCOM AFBR-S50-FEK Evaluation Kit for Time Of Flight Sensor Modules** [pdf] User Guide AFBR-S50-FEK Evaluation Kit for Time Of Flight Sensor Modules, AFBR-S50-FEK, Evaluation Kit for Time Of Flight Sensor Modules, Kit for Time Of Flight Sensor Modules, Time Of Flight Sensor Modules, Flight Sensor Modules, Sensor Modules, Modules

References

- **User Manual**