



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

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



## AFBR-S50-FEK

### Evaluation Kit for Time-of-Flight Sensor Modules

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## 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

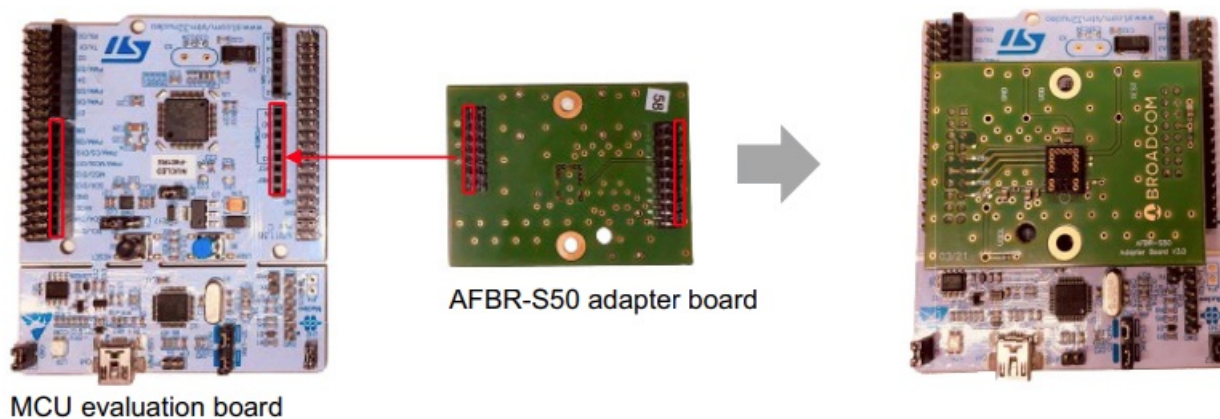
Figure 1: Evaluation Kit Components



## Hardware Assembly

1. Connect the adapter board and the MCU evaluation board at the Arduino pinout.

**Figure 2: Connect the Adapter and Evaluation Boards**



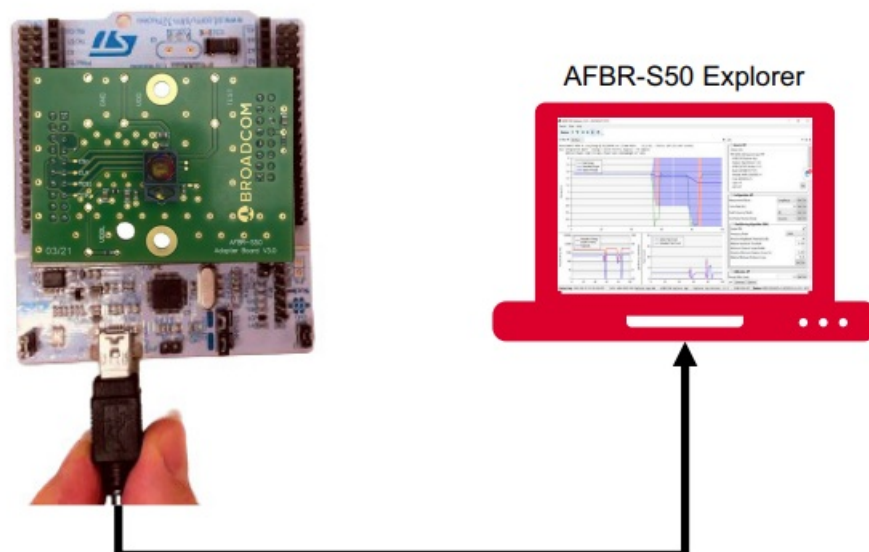
2. Ensure the sensor orientation is correct. Plug the sensor into the socket on the adapter board.

**Figure 3: Sensor Connection**



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

**Figure 4: Connect the Evaluation Board to a PC**



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

Related Documents

The references in the following table may be used in conjunction with this document.

Table 1: References

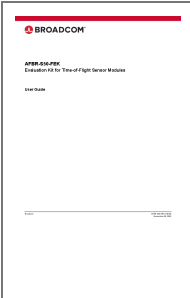
Document Name	Document Number	Source
AFBR-S50 User Guide	AFBR-S50-EK-UG	<a href="https://docs.broadcom.com/docs/AFBR-S50-EK-UG">docs.broadcom.com/docs/AFBR-S50-EK-UG</a>

Revision History

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

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Documents / Resources

	<p><a href="#">BROADCOM AFBR-S50-FEK Evaluation Kit for Time Of Flight Sensor Modules</a> [pdf] User Guide</p> <p>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</p>
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References

- [User Manual](#)