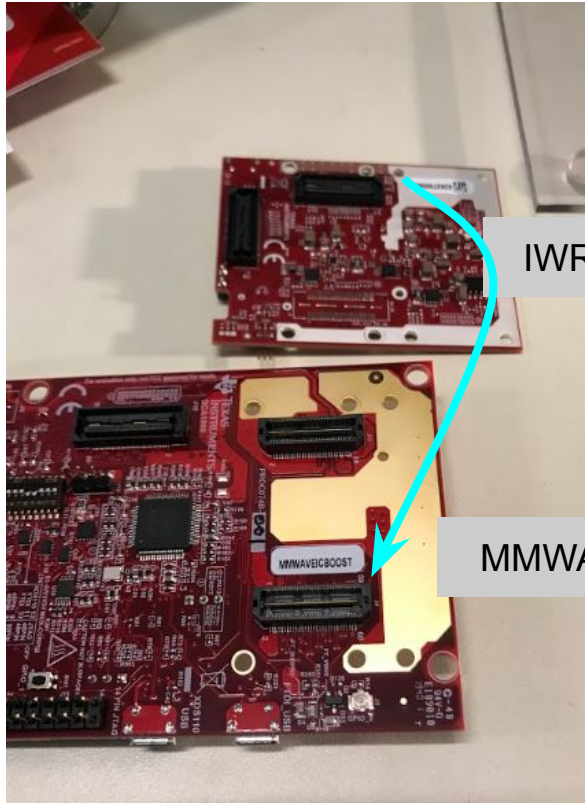


# TI Radar Sensor

# Bring up issue

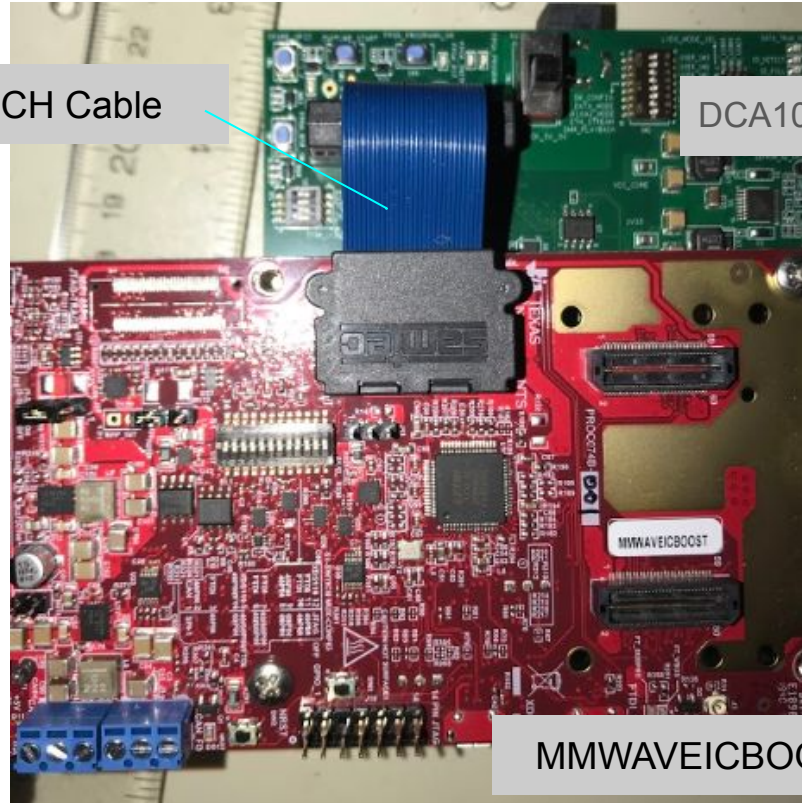
High-speed connector used to cable between MMWAVEICBOOST and DCA1000EVM card is blocked by IWR6843ISK

# Component Board Connections



IWR6843ISK

MMWAVEICBOOST



SAMTECH Cable

DCA1000EVM

MMWAVEICBOOST

# Interference between IWR6843ISK and SAMTECH Cable interface to DCA1000EVM Board

IWR6843ISK interferes with connector mating



# Documentation shows different IWR6843ISK Layout that does not interfere

swru546c.pdf - Adobe Acrobat Pro DC

File Edit View Window Help

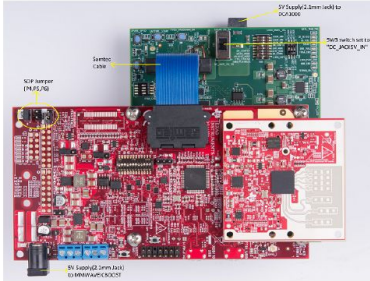
Home Tools swru546c.pdf x

16 / 80 95.8%

### 2.5.3 DCA1000 EVM Connection

The DCA1000 EVM must be powered up with a 5-V supply and the micro-USB Ethernet cable connected to the same PC as the MMWAVEICBOOST and antenna module. A 60-pin Samtec cable (HQCD-030-02.00-SEU-TBR-1) is used to connect the 60-pin connector (J10) on the MMWAVEICBOOST to the J3 input connector on the DCA1000 EVM. Mount the four stand offs, four washers, and pan head screws to mate with the DCA1000EVM. For more information, see the setup shown in [Figure 12](#).

**NOTE:** The Samtec cable included in the kit is the HQCD-030-02.00-SEU-TBR-1. "02.00" indicates the length of the cable in inches; cables with longer length can be ordered by the user if needed.



**Figure 12. IWR6843ISK-MMWAVEICBOOST-DCA1000EVM Test Setup**

Bookmarks

- 2.2 Block Diagram and Features
- 2.3 Muxing Scheme for Multiple Sources
- 2.4 Using the MMWAVEICBOOST With the Starter Kit
  - 2.4.1 PC Connection
  - 2.4.2 Flashing the QSPI Flash on the Antenna Module
  - 2.4.3 MMWAVEICBOOST and Antenna Module Connections for Modular Testing
- 2.5 Interfacing with the DCA1000EVM
- 2.6 Power

# Possible Solutions

- SAMTECH HD 60 Pin Male to Female “Stand-off” connector to create room for DCA1000EVM Cable Connection
- Going back to TI
  - IWR6843ISK Board has cut out that does not align with MMWAVEICBOOST
  - IWR6843ISK Board has been revised
  - Is there a new rev of MMWAVEICBOOST and we received the wrong one?