

CFXBLE-1 Product Family introduction

Product CFXBLE-1 (FCC ID: 2AMK9A-CFXBLE-1) has a variant CFXBLE-1R with the same FCC ID. These products have been developed of the 2.4 GHz ISM Band Transceiver Tag. The CFXBLE-1R product is very similar compared to the original product CFXBLE-1. Key differentiator is that CFXBLE-1R is made more rugged to survive in extreme operating conditions by die-casting the electronics completely within polyurethane casing.

1. Common nominators between products

- Same HW Electronics, including antennas, PCBs, components etc.
- Same SW firmware.
- Same batteries.
- Same mechanical dimensions & looks.

2. Differences between variants

- Second variant is ruggedized by die-casting the complete PCB assembly within polyurethane casing.
- Connection of the two PCBs is further secured by using a double sided foam tape to ease fabrication.

The mechanical modifications of the second product variant do not affect into Antenna, EMC RF & safety.



Figure 1. Black: Second "Rugged" variant. White: Original variant.

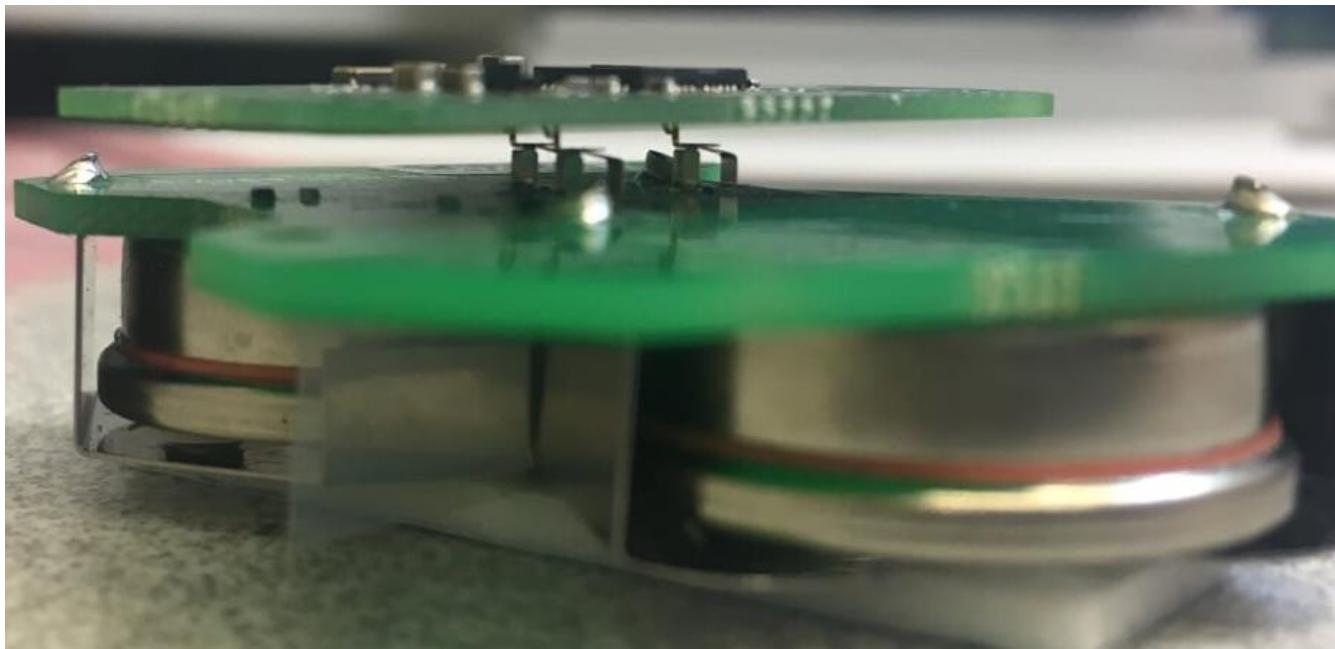


Figure 2. Main board to battery board connection in original variant using spring clips.

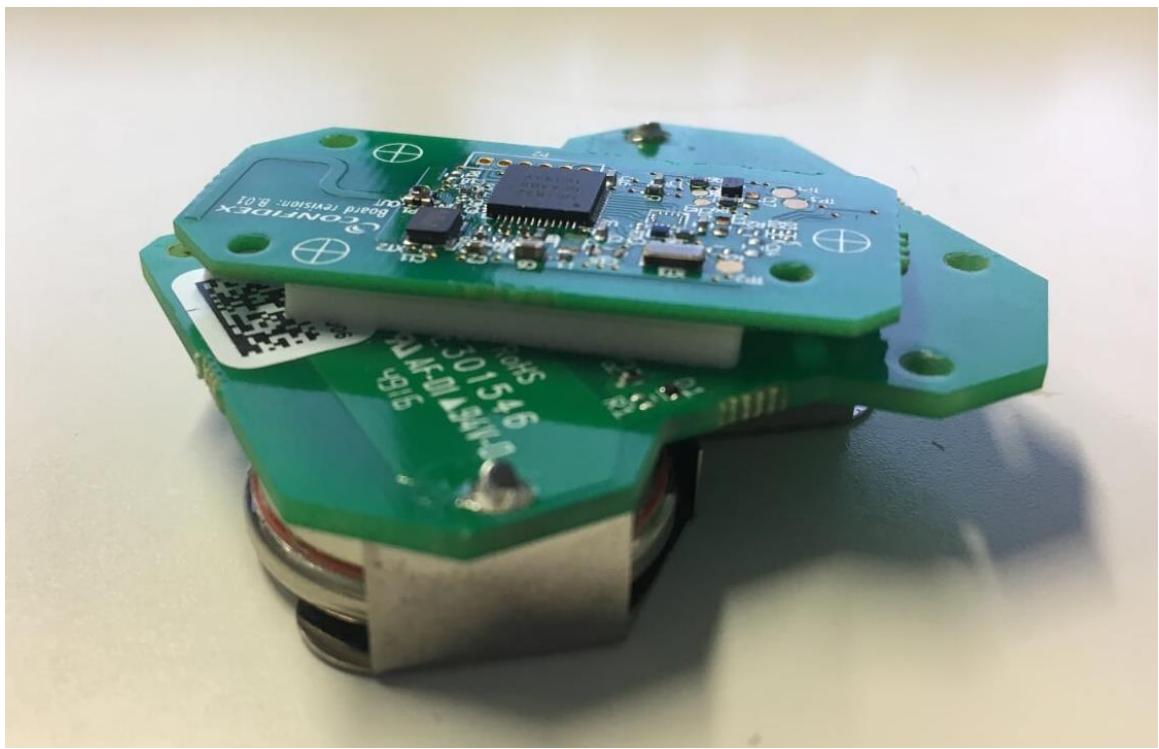


Figure 3. In CFXBLE-1R rugged variant a double-sided foam tape is added between the main board and battery holder to ease assembly in the polyurethane casting process. Connection between the boards is done using the same spring clips that CFXBLE-1 uses.

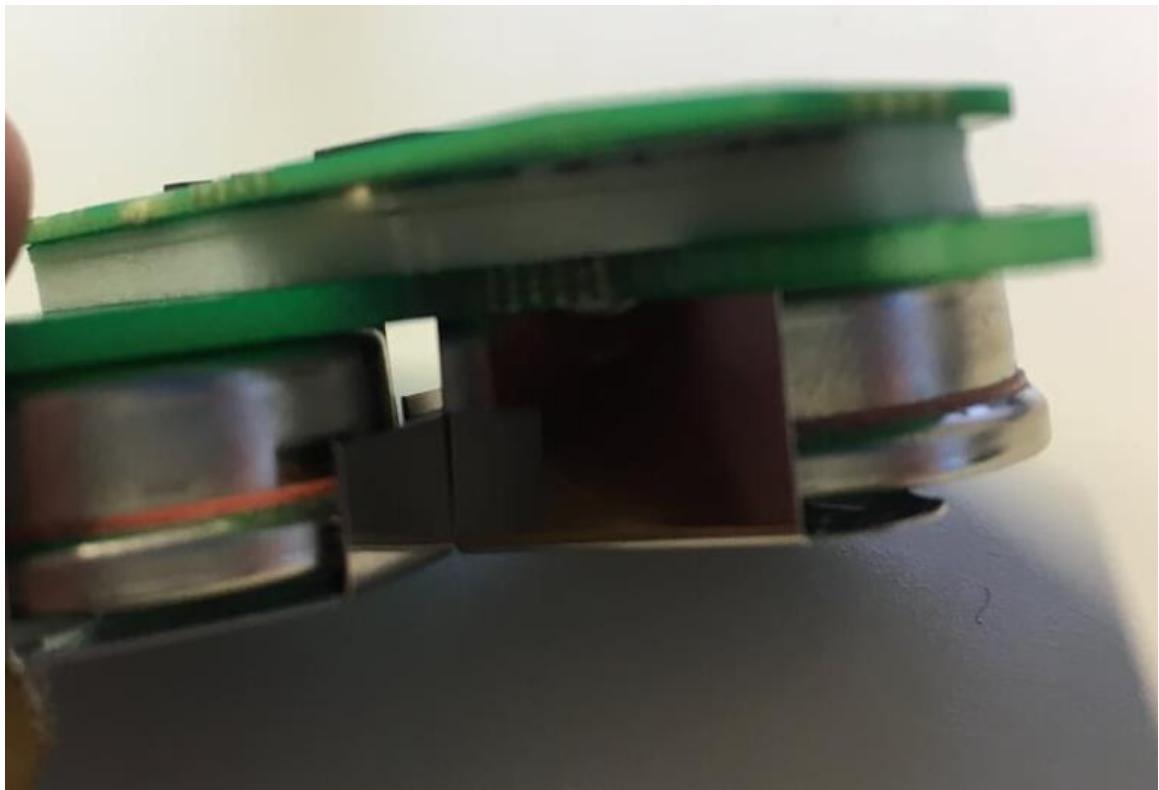


Figure 4. Close-up of CFXBLE-1R board interface.