



VocalFusion® XVF3510 - DESIGN ADVISORY

XVF3510 Development Kits

DESIGN ADVISORY - XVF3510 DEVELOPMENT KITS

1. ISSUE OVERVIEW

XVF3510 firmware releases from v4.0 onwards changed the pin assignment for MIC_DATA from Pin 43 to Pin 31. XVF3510 Development kit version 1v2 or later supports both pin assignments, but earlier versions only support the original MIC_DATA assignment.

For affected development kits, firmware with incompatible pin assignments will not output valid data. In all other respects, the firmware will operate as expected. The following sections detail a simple wire modification to allow support of both firmware pin configurations.

2. AFFECTED DEVELOPMENT KITS

The following table details the development kits affected.

Table 2-1 XVF3510 development kits affected by MIC_DATA pin change

DESCRIPTION	PART NUMBER	VERSION
VocalFusion dev kit	XK-VF3510-L71	1v0, 1v1
VocalFusion dev kit for Amazon AVS	XK-VF3510-L71-AVS	1v0, 1v1

The version of the development kit is shown on the underside of the XVF3510 Processor Base Board as shown in the following figures.

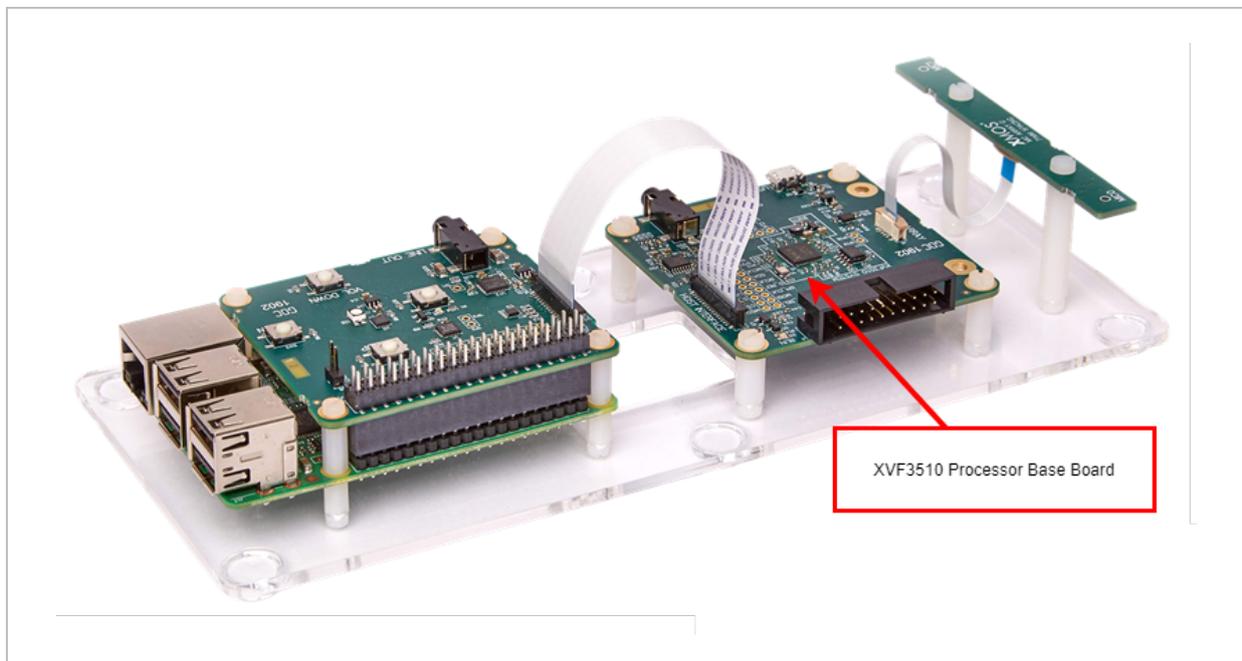


Figure 2-1 Location of XVF3510 Processor Base Board

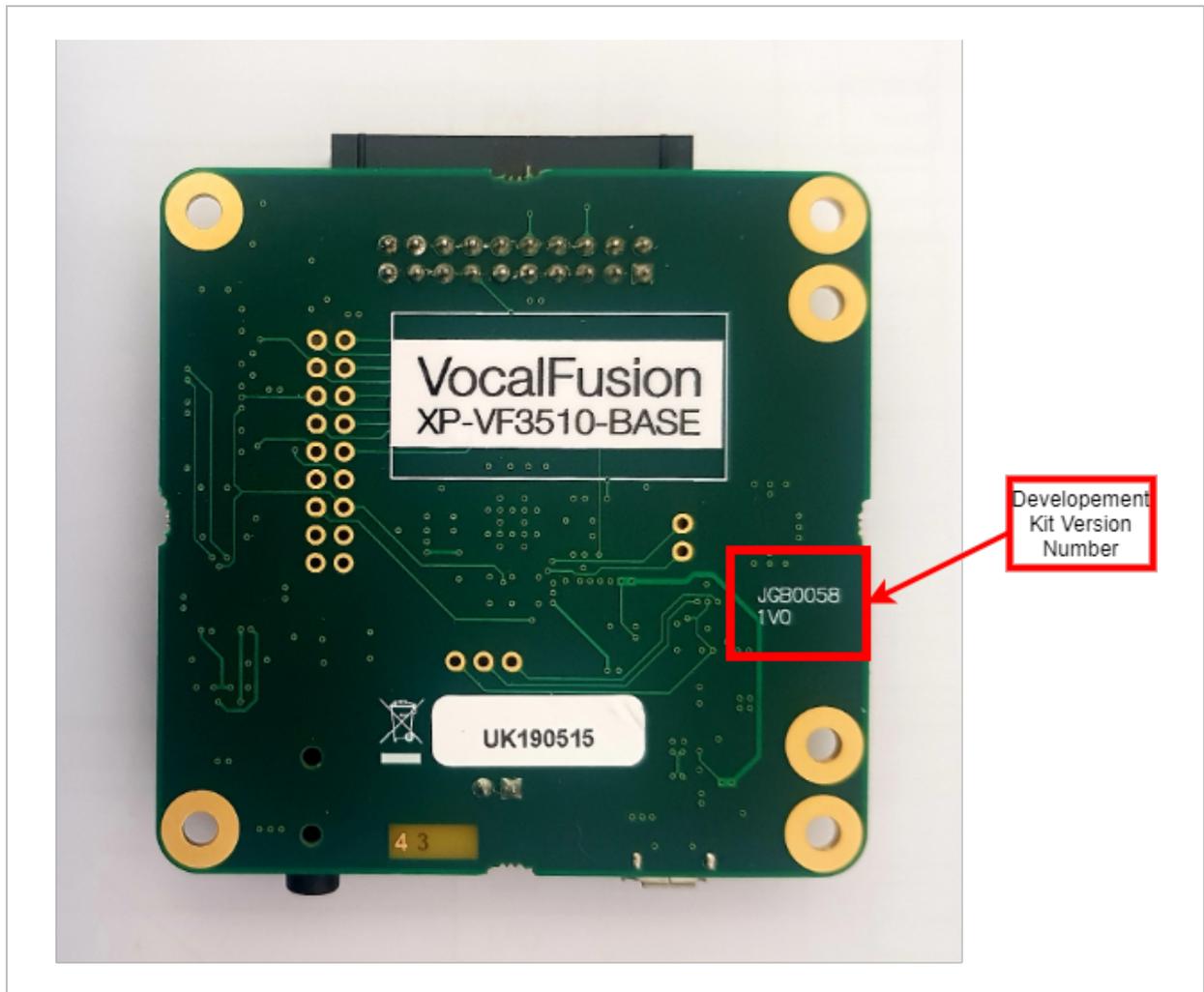


Figure 2-2 Version number location on the underside of XVF3510 Processor Base Board

3. RECOMMENDED ACTION

To enable support for both firmware pin configurations the MIC_DATA test point must be connected to Test Point 18 (TP18) using a short wire. 0.1" pitch headers can be used for convenience. The locations of the test points are shown in the following figure.

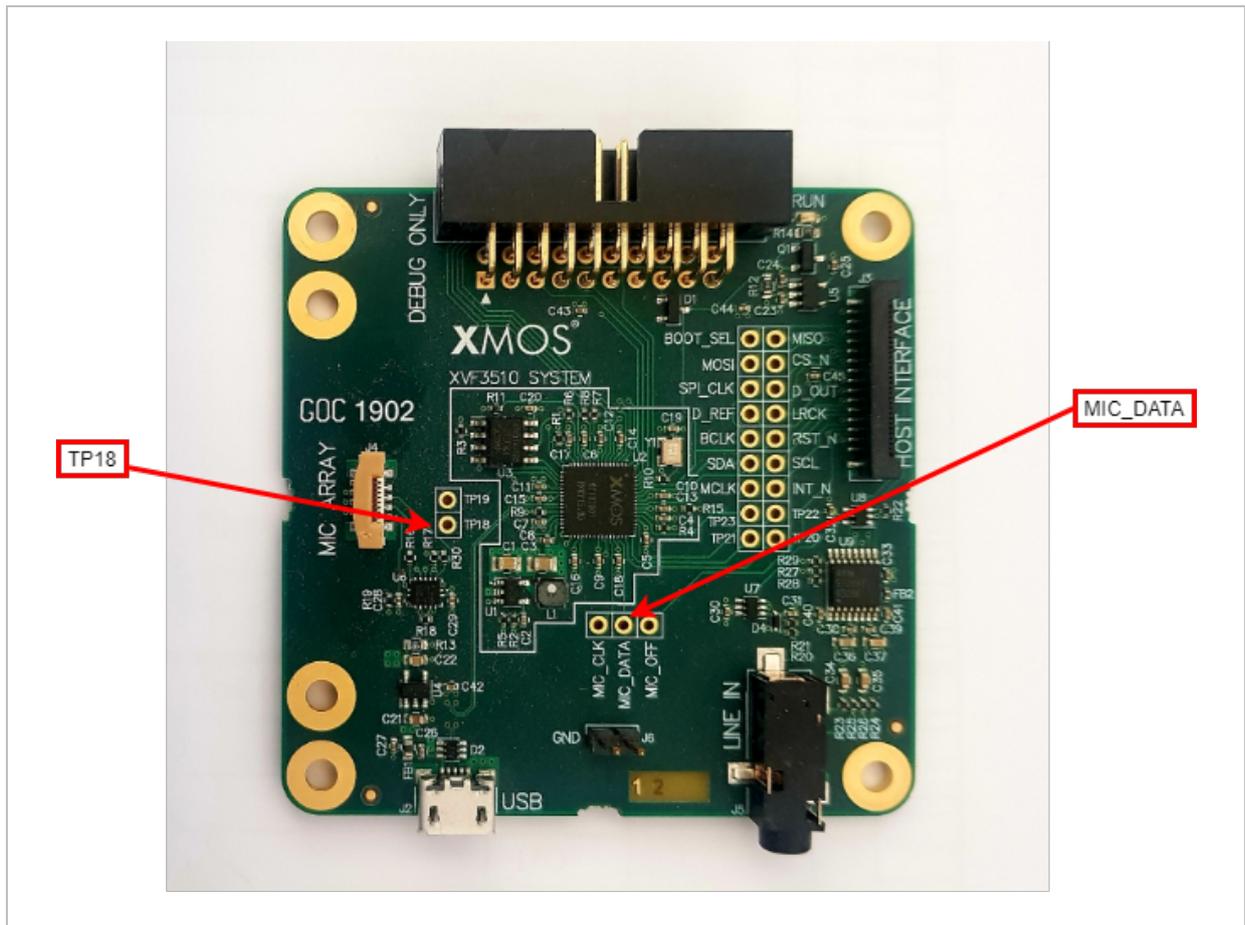


Figure 3-1 Location of Test Points for wire connection.

4. REVISION HISTORY

DOCUMENT VERSION	RELEASE DATE	CHANGE DESCRIPTION
XM-014236-DA Issue 1	23 Jul 2020	Initial Release

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