

Release 1.2.0

Hardware, Software and Documentation Changes

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This document provides release information for FAA20 Release 1.2.0.

INTRODUCTION

This new FAA20 release includes changes in the main software and associated documentation. The next section provides a configuration update summary. Subsequent sections provide change details.

CONFIGURATION ITEM SUMMARY

The configuration item summary is provided below:

ITEM	For HW	NEW	CURRENT VER
Main Software	A and B	✓	1.2.0
Boot Software	A and B		1.0.0
PSD Firmware	A only		1.0.0
PSD2 Firmware	B only		1.0.0
CPLD Firmware	B only		1.1.0
Board Manual	A* and B	✓	1.2.0
Test Vector Utilities	A and B		1.0.0
FAA20 CDROM	A and B	✓	1.2.0

* The manual is designed around the more plentiful revision B hardware, but is also useful for the earlier revision A hardware.

The Main Software can be updated in the field. Refer to the board manual for software update instructions

CHANGE DESCRIPTION

Main Application Software Changes

1. FIX: External loopback of nibble interface can interfere with TMRX control.

Problem: When the nibble interface is externally looped and the TMRX is used to place the FAA20 in truncated timing mode, the FAA20 enters TRUN timing only momentarily and returns to NORM timing.

Solution: The problem was isolated to the XCS control nibble. When the TMRX control is activated, the FAA20 updates the TRUNSTAT bit in the XCS control nibble. A change is detected in the looped back XCS nibble causing the FAA20 to read/implement the TRUNCTRL bit which is set to NORM. The software was modified to only read/implement the XCS TRUNCTRL bit when that bit has changed. The software now reflects the operation described in the board manual. This problem is fixed in release 1.2.0 and later.

2. ENHANCEMENT: Default ROUTE COM configuration

The default router configuration was changed. The COM setting has been changed to OFF, i.e. ROUTE COM <- OFF instead of ROUTE COM <- COM.

Board Manual Changes

The manual was updated to indicate that the TMRX control does not function in TEST and VC20 modes. The default ROUTE COM configuration was updated.

CDROM Changes

The downloadable S-record file for the main application software was replaced with the updated version. The board manual and FAA20 Release Notes document were replaced with updated versions.