

DA1458x/DA1468x PLT

PLT Release Notes for v4.2 (v_4.2.0.160)

Table of Contents

1.0 Introduction.....	2
1.1 SCOPE.....	2
1.2 TERMS AND ABBREVIATIONS.....	2
1.3 RELEASE DATA	2
1.4 LICENSE	2
1.5 HISTORY	2
2.0 Release Description.....	3
2.1 MAJOR CHANGES	3
2.2 ISSUES OR LIMITATIONS.....	3
2.3 MAJOR RELEASE FILES.....	3

1.0 Introduction

1.1 Scope

This document describes the release of the DA1458x/DA1468x Production Line Tool from Dialog Semiconductor.

1.2 Terms and Abbreviations

PLT	Production Line Tool
ADC	Analog Digital Converter
UART	Universal Asynchronous Receiver/Transmitter
OTP	One Time Programmable memory
TCS	Trim and Calibration Settings
XTAL	Crystal Oscillator

1.3 Release Data

PROJECT	DA1458x/DA1468x Production Line Tool (PLT)
RELEASE DATE	24 Oct 2017
VERSION NR.	v4.2 (v_4.2.0.160)
RELEASE TYPE ¹	FULL (GA)
RELEASE MASTER	Evangelos Filippatos

1.4 License

Licenses covering this software release are listed in the licensing.txt file, in the PLT root folder.

1.5 History

VERSION	RELEASE MASTER	DATE
v4.2 (v_4.2.0.160)	Evangelos Filippatos	24 Oct-2017

¹ Releases can be of the following types: FULL (GA), FULL (LA), RELEASE CANDIDATE, ENGINEERING, PATCH or BINARY

2.0 Release Description

2.1 Major Changes

#	DESCRIPTION
OVERVIEW	
This is a full release of the DA1458x/DA1468x Production Line Tool (PLT). It includes many new features compared to the previous version. One major addition is the support of audio test for the DA14585/6 chipsets as well as a full support of the DA14682/3 and DA15100/1 chipsets.	
NEW FEATURES	
1	DA14682/3 support
2	DA15100/1 support
3	DA14585 audio test support
4	DA1468x/DA1510x firmware produced from SDK 1.0.10.1072
5	DA1468x/DA1510x production firmware can be downloaded through uartboot.bin at 1Mbaud.
6	Current measurements. In case of failure the PLT switches off devices one by one until the failed DUT is found.
FIXES / IMPROVEMENTS	
1	Fix XTAL trim error messages in all production test binaries.
2	Disable version number message from uartboot.bin.
3	Fix a bug in DA14585 OTP header programming when 'Check empty' option was enabled.
4	Add password protection in missing UI selections.
5	Added GU hardware reset retries.
6	Protect reading and writing at invalid OTP addresses.
7	Improve OTP addressing in the configuration GUI and XML file and XSD validation. Added tooltips of allowable OTP addresses scheme per chipset. OTP address range validation is now based on the chipset selected.
8	Fix retry on failure when red color was shown in Finish button.
DOCUMENTATION	
UM-B-040	DA1458x_DA1468x_Production_Line_Tool_libraries_4v2.pdf
UM-B-041	DA1458x_DA1468x_Production_Line_Tool_4v2.pdf

2.2 Issues or Limitations

#	OPEN ISSUES & LIMITATIONS
1	DA1458x_DA1468x_CLI_PLT.exe needs all fields in params.xml configuration file to be filled-in even if these are not actually used by the current test setup.
2	The DA1458x memory programming may fail at 1M UART baud rate at some specific PCs and at a rate of around 1-2%. This can be solved by splitting the data to be burned into chunks (3960bytes is a good tested chunk) or lowering the UART baud rate to 115200.
3	Sleep current measurement tests need production test firmware changes in order to power down the external peripherals used (e.g. sensors, memory flashes, etc.).
4	'Modulation Index' measurement test using the Anritsu MT8852B does not work with MT8852B latest firmware version 5.00.004.

2.3 Major Release Files

#	FILE NAME	DESCRIPTION
1	DA1458x_DA1468x_PLT_v4.2.0.160.zip	RELEASE PACKAGE
2	DA1458x_DA1468x_PLT_Release_Notes_v4.2.doc	RELEASE NOTES