

# ADTS500 Series Software Upgrade

This software release package is suitable for ADTS542F, ADTS552F, ADTS553F and ADTS554F Air Data Test Sets and ADTS TOUCH hand terminal.

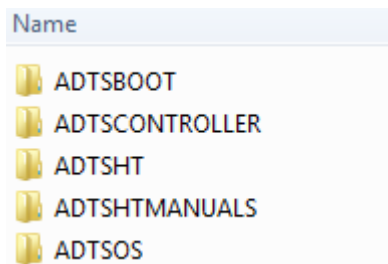
**NOTE 1: ENSURE THIS DOCUMENT IS READ AND UNDERSTOOD FULLY BEFORE ATTEMPTING UPGRADE. FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN AN UNSUCCESSFUL UPDATE REQUIRING YOUR UNIT TO BE RETURNED TO A SERVICE CENTRE.**

**NOTE 2: THIS RELEASE OF SOFTWARE IS ONLY APPLICABLE TO ADTS BASE UNITS WITH CURRENT SOFTWARE COMPONENTS DK430 BOOTLOADER AND DK467 APPLICATION. DO NOT ATTEMPT TO UPGRADE ADTS542F/ADTS552F VARIANTS WITH DK429 APPLICATION.**

Problems can occur when the bootloader and application code on the ADTS base unit and/or ADTS Touch hand terminal are incompatible with each another.

## **Downloading and extracting the software**

Download the package from the website and extract the contents of the self-extracting compressed file (ADTS5XX\_RELEASE\_117M9530\_REV\_xx.exe), or the ADTS5XX\_RELEASE\_117M9530\_REV\_xx.zip file, to the root of a USB memory device. The following folder structure should be created:



## **ADTS Touch hand terminal software**

Ensure ADTS hand terminal software is upgraded before attempting upgrade of ADTS base unit.

Navigate to Tools -> Calibration (pin 5487).

Select ADTS Touch from the menu options.

Update the OS & boot if not already at the version(s) below:

DK442 V01.04.00 (OS)

DK441 V01.00.00 (boot)

Once the latest version OS & bootloader are installed, the application may be upgraded

### **ADTS 5xxF base unit upgrading**

- **from existing ADTS software:**

DK430 V2.00.10 (Bootloader)  
DK467 V1.00.02 (Application)

- **to new version:**

DK430 V2.xx.yy (Bootloader)  
DK467 V1.xx.yy (Application)

1. Power cycle the ADTS Touch hand terminal & the ADTS base unit and wait until "ADTS in Standby" message box displayed on the screen.
2. From the hand terminal dashboard:
3. Select Tools->Calibration (PIN 5487)
4. Select ADTS
5. Select BOOT CODE (should display current DK430 version)
6. Select "Yes" to the "Are you sure you want to upgrade the ADTS Boot Code"
7. Press "Ok" at the "Application firmware will require upgrade after the bootloader update" notice.
8. Allow the upgrade to complete; indicated by the "Upgrade completed" message box.
9. Upon completion, the displayed version number of the bootloader (DK430 ) should update to the new version.

### **Without resetting the ADTS or the hand terminal:**

1. Select MAIN CODE (which should still be displaying the current version).
2. Select "Yes" to the "Are you sure you want to upgrade the ADTS Main Code"
3. Allow the upgrade to complete; indicated by the "Upgrade completed" message box.

### **In case of failure to upgrade main code**

If the main code upgrade reports an error message or fails persistently then:

1. Reset the ADTS and the hand terminal.
2. Toggle the ADTS on/off switch (a quick toggle is sufficient). The power LED on the front panel will be flashing purple.
3. Power-cycle the hand terminal.
4. When the dashboard displays on the hand terminal, select Tools->Calibration (PIN 5487).
5. Select ADTS
6. Select MAIN CODE (which should still be displaying the current version).
7. Select "Yes" to the "Are you sure you want to upgrade the ADTS Main Code"
8. Allow the upgrade to complete; indicated by the "Upgrade completed" message box.

To confirm the success of the upgrade procedure, check that the expected version numbers of the software components are displayed on the status screen. From the hand terminal dashboard:

Select Tools->System Status->Software Installed.