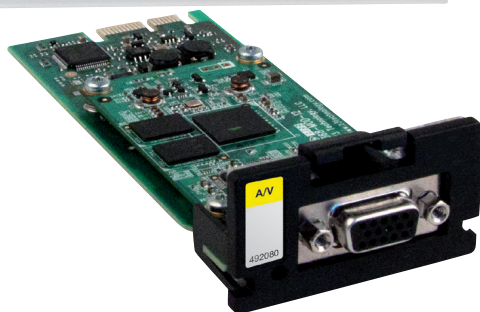




TRIAx



# User guide

## AV module

Model

**AV module**

Item no.

**492080**

Version

**891078A**

**10 - 2011**

**EN**

[triax.com](http://triax.com)

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## Disposal



Within in the European Union this label indicates that the product cannot be disposed of with the general household waste. Neither the headend nor the input and output modules can be disposed of with the general household waste.

For proper treatment and recycling of old products, please take them to designated collection points in accordance with your national legislation.

## Box content

A new input module is wrapped in antistatic bubble wrap and packed in a cardboard box when you receive it.

Included in the box is a user guide instructing you in how to use the TDX Service Tool to configure the module

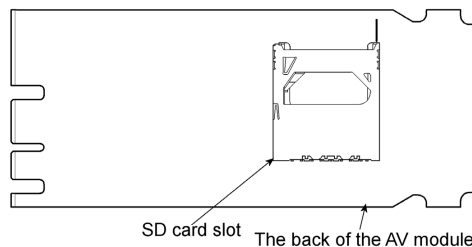
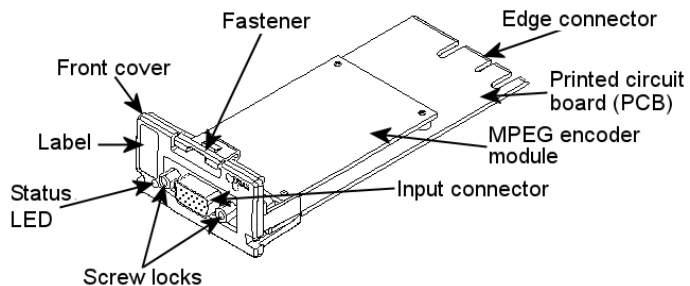
## AV module

The AV module is one of the input modules that you can install in the input section of your TDX headend unit.

You can use the AV module to connect:

- an analogue surveillance camera,
- a computer running a presentation,
- a set-top box (connected to a satellite disc, antenna or cable TV network) with a decryption card,
- or a DVD player playing a DVD.

Below is illustrated descriptions of an AV module.



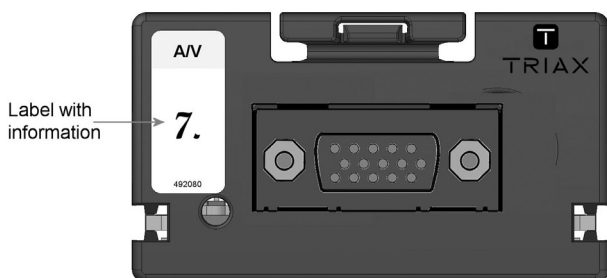
# Basics

## Labels

A label is placed on the front of the input module where you can write the information regarding the configuration of the module.

Besides the information that you write on the label, the module type and part number are also displayed on the label.

**Note** The coloured part at the top of the label informs you of the module type. Each type of module is allocated a unique coloured label.



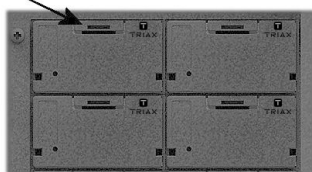
On the bottom of the module you will find a label with the bar code and a serial number printed on it.

## Cover removal

Before you can install an AV module in the input section you have to remove the cover that protects the module slot.

1. Press the fastener downwards

2. Pull the cover outwards to remove it



You do not need tools to remove the covers, just use your fingers.

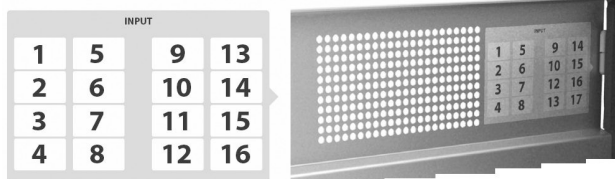
For EMC and cooling reasons only remove covers from the module slots that you want to insert modules into.

## Module installation

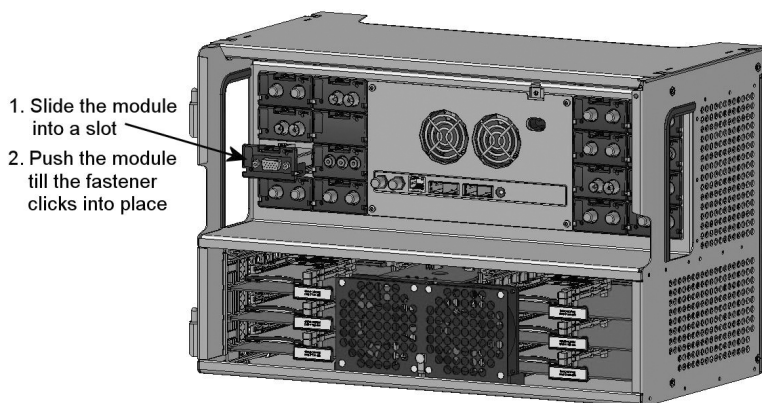
It is optional in which slots you place the individual input modules in the input section. For convenience each slot has been given a number, and an overview of the slot numbers has been placed on the inside of the door of each unit.

**Note** Slot no. 1 is placed in the top left-hand corner of the input section when you face the front of the unit.





You install an input module by sliding the module into a module slot in the input section of the headend unit and push it till the module clicks into place.

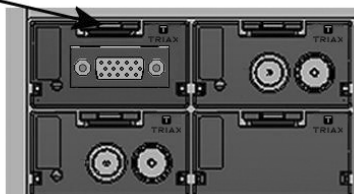


**Note** You can use hot swapping when you insert an input module into or remove an input module from the TDX system.

## Module removal

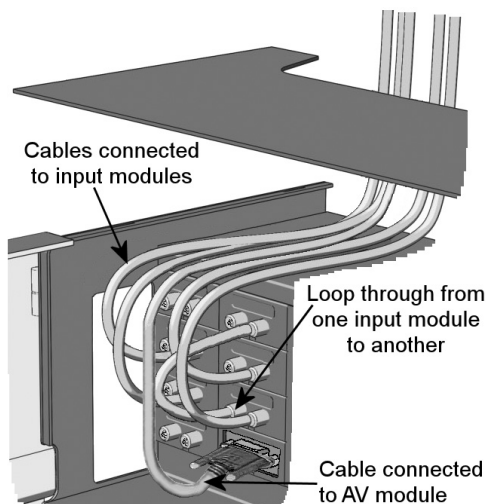
It is possible to remove an input module from a module slot without using any tools, just use your fingers to press the fastener downwards and then pull the module outwards to remove it from the module slot.

1. Press the fastener downwards
2. Pull the module outwards to remove it from the module slot



# Basics

**Input cable installation** When all the required input modules have been installed you can connect the input signal cables one by one to the input modules.



When you connect the cable to the input connector on the AV module, remember to tighten the screws connecting the AV plug to the connector.

## Status LED's

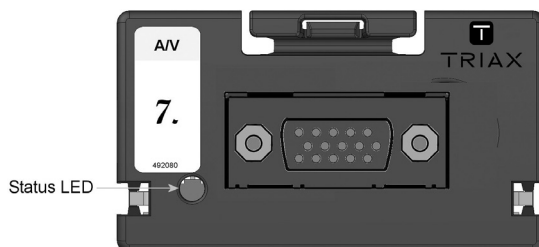
There is a status LED on the front of each module. The LED indicates whether the module has locked on to a valid encoding stream.

**Green - flashing** The module has been detected but not been configured yet.

**Green** No errors, valid service and MPEG.

**Red** Module has been configured but no service has been detected.

**No colour** Power has not been switched on.

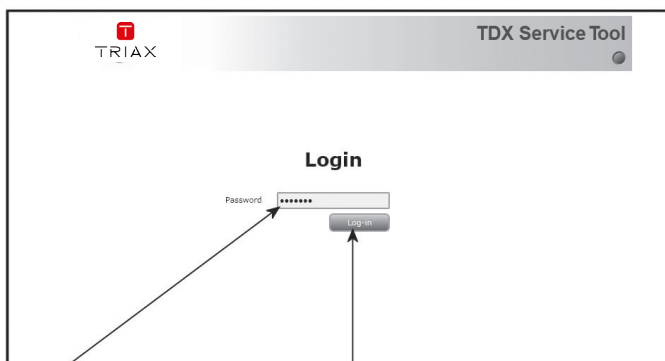


When you update the software of a module the status LED provides you with information about the updating process.

<b>Orange</b>	Boot loader state.
<b>Temporary off</b>	Initiation of the software update.
<b>Temporary green</b>	Every time the modules receives a valid data package. Repeated until the update is completed without errors.
<b>Red</b>	Software update failed.

## Log in

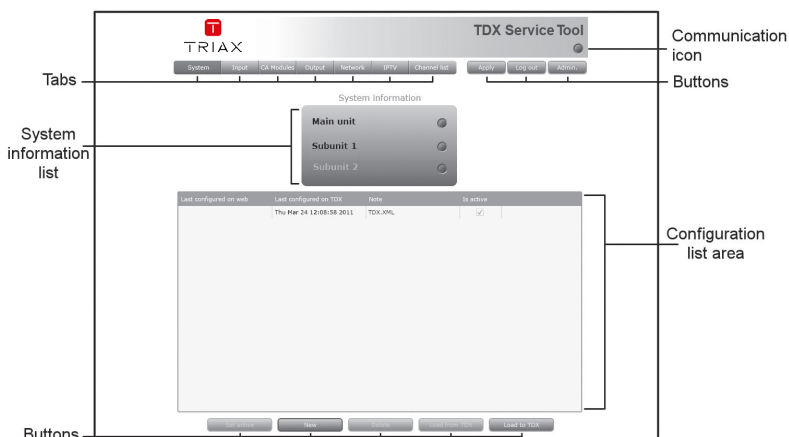
When you have loaded the TDX Service Tool from the TDX headend system to your laptop/computer the Login window of TDX Service Tool is displayed.



1. Enter your password

2. Press the Login button

When you have pressed the Log in button the System window is displayed.

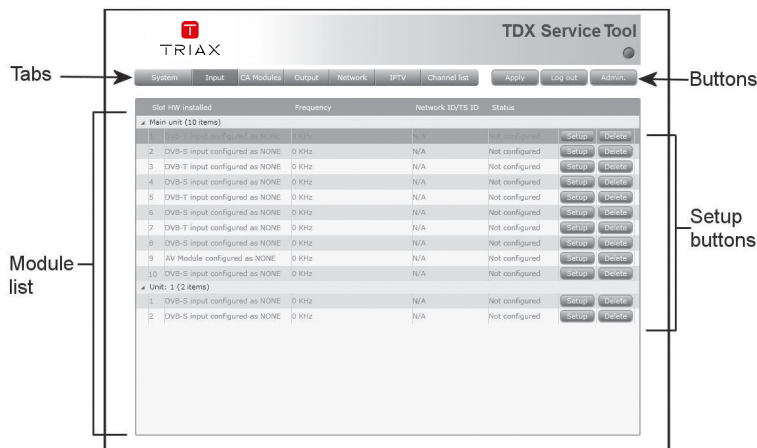


# TDX Service Tool

## Input window

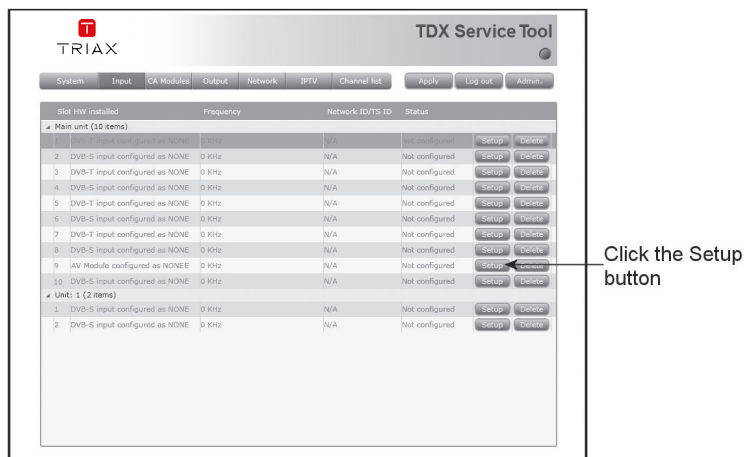
Click the Input tab in the TDX Service Tool to display the Input window.

The first time you display the Input window in a new configuration the module list only displays the number and type of input modules that you have inserted in the main and subunits.

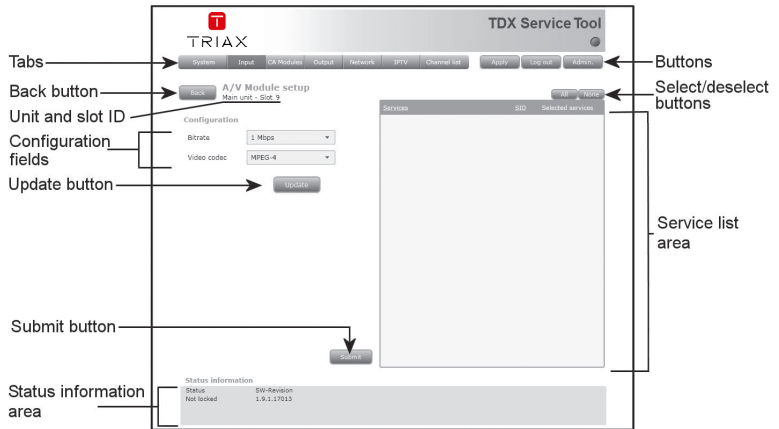


You have to configure the input modules one by one.

To display the Configuration window for an AV module, click the Setup button of the AV input module you want to configure.



## Configuration of AV input module



The first time the TDX Service Tool displays the Configuration window for an AV input module in a new configuration, the fields will display default values and the list of services will be empty.

### Bitrate

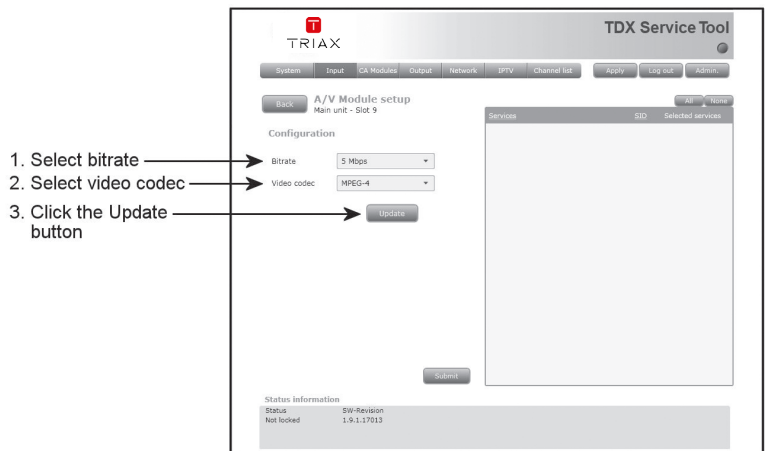
To select the required bitrate, click the arrow to the right of the Bitrate field to open the drop-down list with the bitrates you can choose from.

Select the bitrate that matches the type of service you want to route to the TDX-pool.

### Video codec

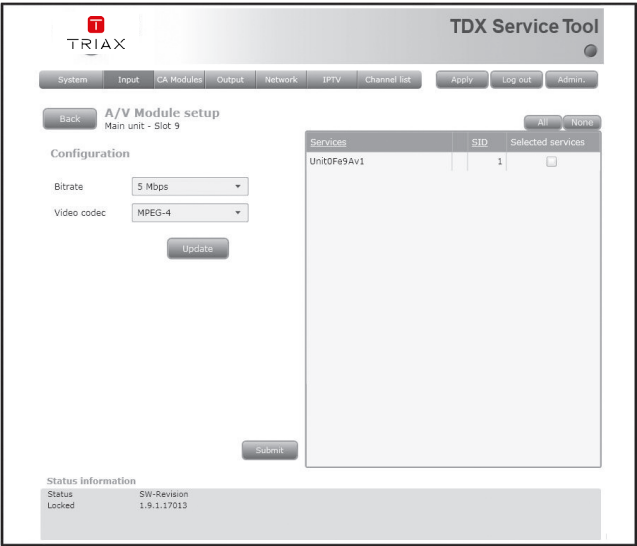
To select the required video codec, click the arrow to the right of the Video codec field to open the drop-down list with the codecs you can choose from.

Select the codec you want to use.



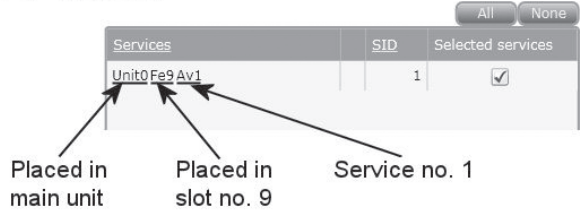
# TDX Service Tool

Click the Update button to enter the information into the headend system.  
As a result a service is displayed in the service list area.



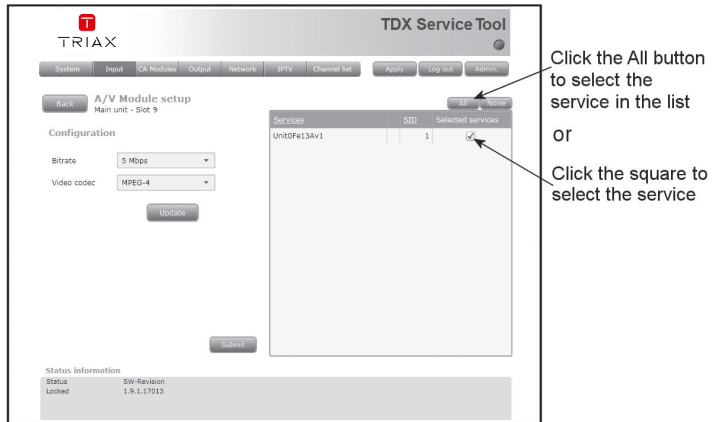
The name of the service listed in the service list area does not provide you with any information about which type of service it is. The name only states the position of the AV module in the TDX system.

AV module:

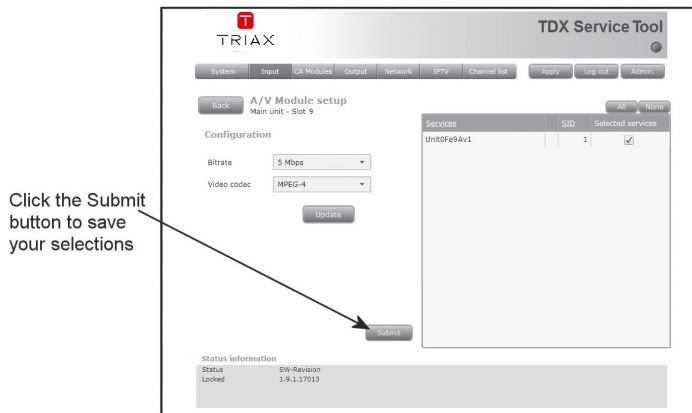


To select the service you can either click the All button at the top of the list or select the service by clicking the square to the right of the service.

# TDX Service Tool



When you have selected the service, click the Submit button to enter this information into the headend system and return to the Input window.



Now the selected services are available in the TDX service pool.

Remember to click the Apply button in the upper right-hand corner from time to time to save new settings in the configuration.

**Note** When you display the Configuration window for an input module that has been configured, all fields are filled in and services have been selected.

If you want to change the existing bitrate and video codec just follow the same procedure as when you configure an input module for the very first time.

# TDX Service Tool

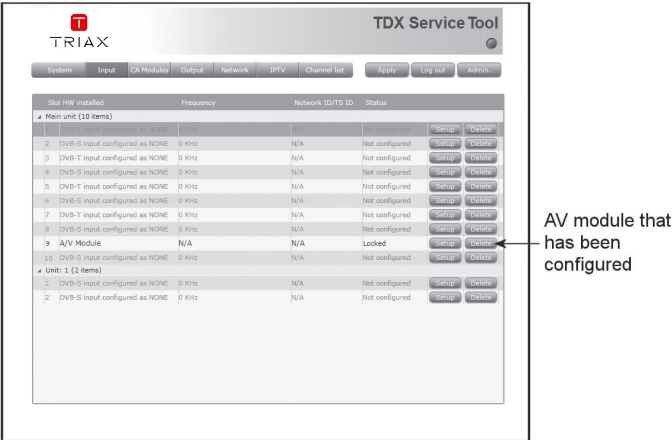
## Status information

Status information is placed at the bottom of the Configuration window. The information displayed in the configuration window of a AV module includes the status of the module and revision of software.



- Status** Informs you whether the input module is locked or not.
- SW revision** Displays the software version of the input module.

When you return to the Input window the configuration of the AV input module is displayed in the module list.



Now you can continue to configure the other input modules one by one, following the procedure described on the previous pages.



## Delete setup

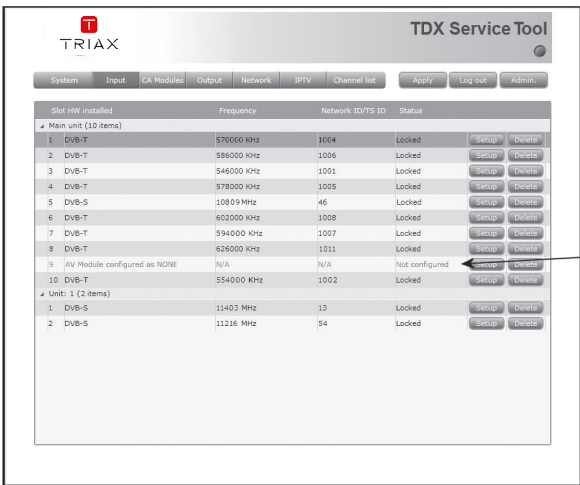
If you want to remove an AV input module and the associated configuration you can use the Delete button of the module in question in the Input window.

Click the Delete button of the AV input module you want to remove.

A message window is displayed asking you to confirm that you want to remove the input module.



Until you have removed the input module physically from the headend unit the module list will display a line with the writing in red.



# TDX Service Tool

## Save configuration

An **important button** when you change your configuration of the headend system is the Apply button placed in the upper right-hand corner of the TDX Service Tool window.



Click the Apply button to save the changes

## Apply

Whenever you have made changes in your configuration, “Apply” on the Apply button turns red to tell you that you have unsaved changes that need to be saved.

Click the Apply button to **save** the changes. When changes have been saved the “Apply” text loses the red colour.

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**WARNING - All unsaved changes will be lost in case of a power cut**

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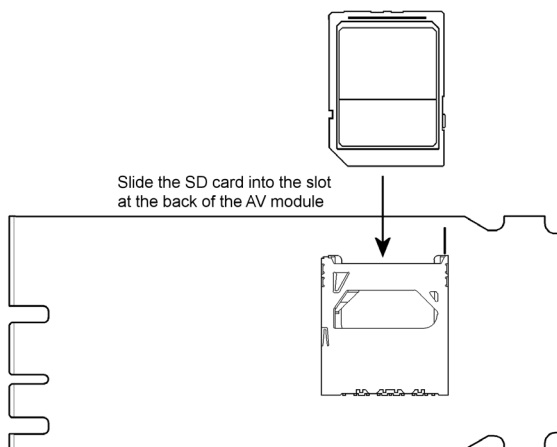
## Update MPEG encoder module

In very rare instances you will have to update the MPEG encoder module on the PCB of the AV module.

If the MPEG encoder module needs to be updated you will receive an SD card containing the update files from Triax.

To update the MPEG encoder module follow the procedure below:

- Remove the AV module from its slot in the TDX unit while power is on.
- Slide the SD card into the SD slot at the back of the AV module.



- Insert the AV module into the slot in the TDX unit while power is on.

The colour of the LED on the AV module indicates how the update process is progressing:

**Red - fast flashing**      The MPEG encoder module is now being updated.

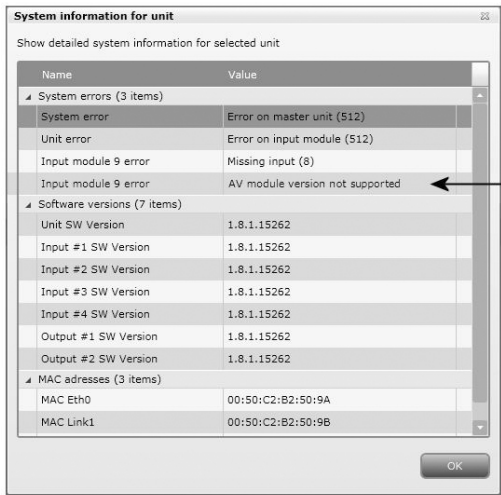
**Green - fast flashing**      The update of the MPEG encoder module is completed.

- Remove the AV module from the slot in the TDX unit.
- Remove the SD card from the slot at the back of the AV module.
- Insert the AV module into its slot in the TDX unit.

If the update of the MPEG encoder module requires that the TDX system is updated as well the colour of the LED on the AV module and the System LED on the TDX unit will turn red and you will get an error message in the System information window.

# TDX Service Tool

The illustration below displays the error message you will receive if the TDX system needs to be updated after the MPEG encoder module has been updated.



This message will be displayed if you need to update the TDX system following the update of the MPEG encoder module

## Manufacturer

Dear Customer,

Should you require technical assistance and in the event that your expert dealer is unable to help you, please contact us.

Triax A/S  
Bjørnkærvej 3  
8783 Hornsyld  
Denmark

# Your notes

Your notes

Your notes



[triax.com/support](https://triax.com/support)



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