



SmarCAM DVB

Conditional Access Modules (CAMs) are removable cards that, when combined with an authorized smart card or SIM card, allow end-users to view pay television services. The pay television industry has defined the CAM based on the DVB Common Interface (DVB-CI) standard, which uses the PC Card (previously PCMCIA) form factor.

The SmarCAM is a new (as of 2007) CAM platform that meets the most advanced security requirements that today's operators and Conditional Access (CA) vendors demand.

Using the SmarCAM

In order to be able to receive pay television services, a Conditional Access Module and a Smart Card or a SIM Card, must be inserted into the corresponding Common Interface slot of your TV set or of Set Top Box.

First push the smart card or SIM card into the CAM as far as it will go.

Insert the smart card so that the side with the golden contact chip faces the side of the module printed with the suppliers brand logo. Printed arrows indicate how to insert the smart card. Also follow the installation instructions included with the smart card.

Insert the SIM card so that the side with the golden contact chip faces the CAM and is not visible. Also follow the installation instructions included with the SIM card.

Slide the CAM carefully into the Common Interface slot. Make sure the module is not twisted in the process. Do not use force.

When the module locks, the eject button is usually pressed outward. The CAM will automatically descramble the pay television services if the smart card or the SIM card is granted with authorizations.

The SmarCAM at a glance

The SmarCAM is based around a proprietary chip designed by SmarDTV, called the CAP-72. This chip handles the main real-time processing functions such as filtering and descrambling. It integrates the PC card and the Transport Stream interface, one Smart Card interface, and the SDRAM memory interface. It includes an ARM7 microprocessor. The Flash memory size is 2MB, and is used to store the embedded software. The SDRAM size can be up to 8 MB, and is used for SW execution, filter buffers, and dynamic allocation.

The SmarCAM2 contains security elements such as the use of OTP Flash memory and a secure boot loader. These security elements help the SmarCAM to comply with the strictest security requirements of leading CA companies.

SmarCAM can support two smart cards simultaneously. One is based on a smart card connector, and the other one on SIM card connector.

The SmarCAM compliance

- The SmarCAM meets all the CE class B requirements.
- The SmarCAM device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

FCC compliance notice :

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC warning:

Modifications not expressly approved by the manufacturer could void your authority to operate the equipment under FCC rules.

- The SmarCAM is compliant to the DVB requirements.
- The product complies with the European Union's Directive 2002/95/EC on the Restriction of use of Hazardous Substances, also known as "RoHS", by july 01, 2006.
- SmarDTV SA complies with the European Union's Directive 2002/96/EC as amended by Directive 2003/108/EC on Waste Electrical and Electronic Equipment also known as "WEEE".

Contact

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For all support requests, please contact **SmarDTV** support team at support@SmarDTV.com providing following information:

- product part-number
- serial number
- software version

For CAM product, part number (6 digits) and serial number (14 digits) are available on the back sticker. For software version, please go to the CAM or CI menu in your Set Top Box or TV.