

SMiT CAM User Guide

-- Irdeto CIPlus CAM

1. Introduction

SMiT Irdeto CIPlus CAM, with an authorized Irdeto smart card, gives access to DVB encrypted programs. It works with the set-top box (STB), or iDTV, which has a CI Slot and CI plus.

1.1. Product Description

- ✧ The CAM supports Irdeto CAS CIPlus features
- ✧ Based on the Embedded 32-bit CPU (ARM7TDMI)
- ✧ Adopting advanced 0.18-micron technology
- ✧ Flash Size: 2M Bytes
- ✧ RAM Size: 256K Bytes
- ✧ TS process bandwidth: Up to 96Mbps (200Mbps in theory)
- ✧ Dimensions: Type II PCMCIA card (100mm x 58mm x 4mm)
- ✧ Connector: 68-pin PCMCIA slot
- ✧ Operation voltage: 4.5V ~ 5.5V
- ✧ Operation current: <150mA
- ✧ Low power consumption: < 600mW
- ✧ Support OTA software upgrade
- ✧ Secure Loader for more secure, stable and efficient software upgrade.
- ✧ Support CI plus, Handling of URI messages

1.2. Standard

- ✧ Plug and Play
- ✧ Compatible with DVB-CI standard (EN50221)
- ✧ Compatible with ETR289
- ✧ Compatible with ISO7816 T=0/T=14 protocol, Class A
- ✧ Compatible with MPEG-2/MPEG-4
- ✧ Compatible with the RoHS Directive 2002/95/EC and its subsequent amendments
- ✧ Compatible with CI plus specification 1.2(2009-04)
- ✧ MHEG5 ISO/IEC 13522-5
- ✧ Supplementary CI Plus Specification for Service / Network Operators Version 1.2

2. Installation

2.1. Instructions

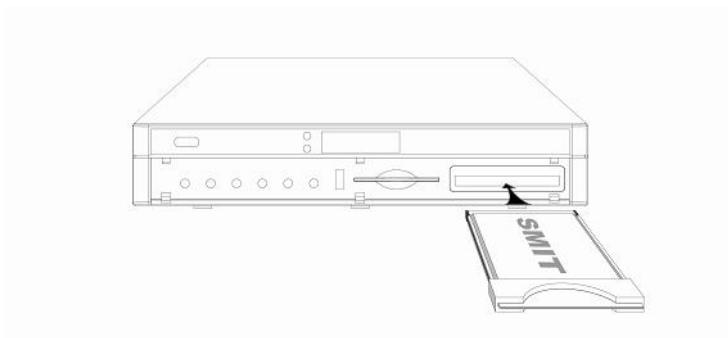
- ✧ Please read this User Guide before using the CAM.
- ✧ DO NOT open the case of CAM, without any guidance from professional technician. It could damage the CAM.
- ✧ DO NOT make any liquids on, or inside the CAM. If the liquid entered the CAM inside, please power off the STB or iDTV immediately to avoid possible danger. And contact Customer Service Center.
- ✧ Please insert the CAM into the STB or iDTV's CI slot. Don't pull out the CAM from STB or iDTV unless necessary, or else it may damage the PCMCIA interface.
- ✧ Please don't pull out and insert the smart card unless necessary, or else it may damage the smart card.
- ✧ Please make sure that all the wires are correctly connected, including antenna, signal wire, video and audio wire.

2.2. Process

1. Insert the smart card into CAM with metal IC towards CAM's front side. Please refer to the following figure:



2. Insert the CAM into the STB or iDTV correctly. Please refer to the following figure. If the CAM is inserted properly, the TV screen will show CICAM initialization information.



Notice:

After CAM's successful initialization, please refer to your iDTV manual for information on how to setup the digital channels on your device.

For more CAM installation information, you could refer to STB or iDTV's User Guide, or contact your iDTV supplier.

3. Functionalities

3.1. Descramble Service

The CAM, with an authorized Irdeto smart card, gives access to DVB encrypted programs. Please make sure do not insert any other type of smart card into the CAM, or the smart card may be damaged.

3.2. Message and Error Banner

The operator sends notification or information to user by message or mail.

If user does not correctly use CAM or smart card, or does not have entitlement to access certain services, the CA Error Banner will pop up on TV screen.

CA Error Banner

E04-4 Please insert the smart card

E06-4 Smart Card Failure

E16-4 Service is currently scrambled

E19-4 Service is currently scrambled

E33-4 Service is currently scrambled

Instructions

Please check the smart card inserted correctly

Please check the smart card inserted correctly

If it is the first time you use the smart card, please wait for the smart card activating for some minutes.

You entitlement has expired, please contact the operator for renew your entitlement

Please check the smart card type, whether it suits the services.

Note: If you receive a CA Error Banner, not listed above, please contact your operator service.

Note: If you are using an iDTV, which is complaint with CI Plus Standard, the iDTV will inform you with some authentication banner displaying on the TV screen, e.g. "Authentication Start" .

"Authentication 1/5 completed ", ..2/5 ..3/5 ..4/5..

Note: Please do not operate the iDTV until you see the "Authentication Success". The whole authentication procedure may cost 40-45 seconds at the first time the CAM will be plugged into the iDTV.

Note: After CAM's successful initialization, please refer to your iDTV manual for information on how to setup the digital channels on your device.

For more CAM information, please refer to iDTV's manual, your iDTV supplier.

Note: Every next time the iDTV device is turned on, a CAM notification / re-authentication message will appear briefly.

3.3. CA Information Description

If you want to get some information about CA, please operate according to the iDTV's guide. The CA Information includes Irdeto CA Status, CAM Manage, Text Message, Select a language.

✧ Irdeto CA Status

Include four subclasses: Loader Status, Smart Card Status, SoftCell Service Status, Production Status.

Loader Status: Information about upgrade, Loader Version, Signature Info etc.

Smart Card Status: Information about smart card, whether smart card inserted, smart card Number, version, type, patchlevel, nationality.

SoftCell Service Status: Information about the current service: EMM status, ECM status etc.

Product Status: information of the smartcard right.

✧ CAM Manage

Include three subclasses: text message, CAM upgrade, CAM Info and CI Plus Info.

CAM upgrade: upgrade the software of the CAM if it is needed.

CAM Info: Information about the CAM. It is an important information for you to look for technical support when your call Customer Service Center.

✧ Text message

Store the messages that you have received.

✧ Select a language

The CAM currently supports English,Dutch.

Note: For maintenance or bug fixing purposes, it might be need to upgrade the internal CAM software. The Operator can send specific messages to inform the user that an upgrade is required by a message which will present at the TV screen. Please follow the instructions given in the information screen.

4. SMiT Customer Service Center

Contact Information

Add: SSMEC Building 2/F, Gao Xin Nan First Avenue Hi-Tech Park South, Nanshan, Shenzhen, China 518057

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