

The *OmniLynx*

OmniCrypt 200

Conditional Access System



A Conditional Access System (CAS) is one of the most crucial elements in determining the success of a pay-TV business. The OmniCrypt 200 CAS is a world-class conditional access system based on a strong security technology platform under the framework of international standards. It enables operators of cable TV, MMDS, satellite or IP to secure their precious contents.

In addition to supporting the basic pay-TV service, OmniCrypt 200 further lends itself to a variety of business models including PPV, NVOD, VOD, SMS, EPG and data broadcasting services.



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SECURITY

OmniCrypt 200 is composed of two subsystems. One is the program encryption or scrambling system which complies with DVB Common Scrambling Algorithm (CSA); another one is the multilevel key encryption system which utilizes several levels of encryption mechanisms to protect the control word.

CORE COMPONENTS

The OmniCrypt 200 core components consist of the following items for standard pay-TV:

- ECM/EMM generator: manages encryption and packaging of entitlements and controls words for scrambled service.
- SMS system: manages subscriber information, subscribers' device information, ordered program, and tidal subscriber and financial information. Moreover, it could provide the basic database of subscribers for other systems.
- Smart Card: it is a key element in a CA system because the management and control of subscriber and program all depend on the smart card.

OMNICRYPT 200 FEATURES

- Uses the DVB Common scrambling algorithm (CSA)
- Control Word (CW) is generated randomly and changed frequently.
- ECM and EMM messages are encrypted with the multilevel keys.
- Ability of "update by air" changed a key or entitlement automatically through TV network which reduces the risk of hacker's attack.
- Complies with the DVB simulcrypt standard, supports open interface, easy to connect with other DVB systems.
- Several kinds of control and management modes:
 - Ordered pay-TV: control entitlement by channel, topic, type, etc.
 - Pay-per-view
 - Free view
 - Preview: show in short time when change channel
 - Restrict by zone
- Parental lock: parents can set the password to control the viewing right
- Supports STB and smart card pairing
- Capable of integrating with SMS of other suppliers



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