

IRDETO ENCRYPTOR

THE TRUSTWORTHY SOLUTION FOR SECURING CONDITIONAL ACCESS SYSTEM

The Irdeto Encryptor is an encryption component of the Irdeto conditional access (CA) system. Its function is to encrypt and sign CA messages received from an Irdeto head-end system such as the Irdeto Plsys in a secure and efficient way. As it contains the operator's master keys, access to the Encryptor is strictly controlled by various mechanisms such as movement sensors and software keys. It is also housed in a safe secured by a combination lock and is thus fully protected from fire, flooding and tampering.

The Encryptor software is available on a 1.44-MB bootable diskette that is linked to a secure Dallas DS1425 iButton containing non-volatile memory and password protection. The Encryptor boot diskette, iButton, access smart card and matching password form a cryptographic link to prevent unauthorized use of the software.

Fully compatible with the Irdeto Plsys CA system, the Encryptor is also designed to support operators' growth. On the TCP/IP head-end network, it functions as a server, receiving messages from clients on four ports and returning cryptographically processed messages to them. Up to 50 client connections can be established, making the Encryptor suitable for even the largest networks.



KEY FEATURES

Decryption of Subscriber Database Records

The Encryptor decrypts subscriber database records established during the smart card personalization phase.

Encryption of CA Message Payloads

The Encryptor encrypts the payloads of the CA messages (ECMs and EMMs) generated at the head-end.

TECHNICAL SPECIFICATIONS

SUPPLIED ACCESSORIES	USB keyboard, power cable, category 5 UTP cable with RJ45 connector
DIMENSIONS AND WEIGHT	2 rack unit (132 mm H × 440 mm W × 485 mm) 35 KG
POWER INPUT	100 – 240 V AC, 50 / 60Hz (automatic selection)
CONSUMPTION	200 watt (max)
HUMIDITY	80% (non condensing at 25°C)
TEMPERATURE	Operating: 0° to 40°C; storage: -10° to +70°C

