

IRDETO KEY SERVER

THE TRUSTWORTHY SOLUTION FOR SECURING CONDITIONAL ACCESS SYSTEM

The Irdeto Key Server is the encryption component of the Irdeto conditional access system (CAS). It performs the following functions in a secure and efficient way:

- Decryption of subscriber database records established during the smart card personalization phase
- Encryption of the payloads of the conditional access messages (ECMs and EMMs) generated at the head-end

Based on advanced technologies, the Irdeto Key Server provides operators with the highest level of security for content protection, while simplifying operational management. To ensure success, Irdeto also offers a variety of tailored services to help operators implement the head-end and set up their operations quickly.

TECHNICAL SPECIFICATIONS

DIMENSIONS	2 rack unit (482 mm W × 88 mm H × 533 mm D)
WEIGHT	13 KG
POWER INPUT	100 – 240 V AC, auto switching 50 / 60 Hz
POWER CONSUMPTION	Maximum 880 W (4 A at 220 V) Effective during normal operation 76 W
HUMIDITY	10 to 85% relative humidity, non-condensing
TEMPERATURE	Operating: +10° to +30° C; storage: -10° to +60° C
MTBF	110.000 h
COMPLIANCE	RoHS, CE, FCC
CERTIFICATION	FIPS 140-2 Level 3 (Level 4 in physical security) Zentraler Kredit-Ausschuss (ZKA) BSI (German Federal Office for Information Security) in accordance with EAL3, EAL4 in progress ISO 27001-2005 Information Security Management System



KEY BENEFITS

Best-In-Class Security

The Irdeto Key Server employs advanced hardware and software technologies to protect critical cryptographic operations and to guard against intrusion attempts. Highlights include:

- Tamper-resistant hardware security module (HSM): sensors for detecting mechanical, chemical, temperature and power attacks, ability to destroy sensitive information upon intrusion attempts
- Asymmetric cryptography, eliminating the risk of key leakage at the head-end

Ease of Operational Management

Due to the hardware and software design, operational management of the Irdeto Key Server is simple and secure, saving operators time and reducing procedural mistakes.

Investment Protection

The Irdeto Key Server is fully backward compatible with all deployed Irdeto smart cards and Irdeto PIsys software releases. It will also support all cards and security clients offered by Irdeto in the future.

