

Protos SAM



- Hierarchical keymanagement
- AES algorithm
- DES, double DES algorithm
- dynamic authentication
- High performance by 32 bit security controller
- DESfire keymanagement
- Compatible with easyPAKS keymanagement software







PROTOS SAM

The United Access PROTOS SAM is a general purpose security access module to be used in various vertical markets.

Based on the Infineon SLE88CFX4000p high performance security controller hardware the PROTOS operating system offers typical SAM functionalities like authentication, encryption, decryption and also high secure key management functions.

- Multi purpose SAM
- High performance because of hardware accelerator and 32bit architecture
- Easy extendable due to flash security controller hardware from Infineon
- Designed for hierarchical key management
- Symmetric and asymmetric cryptography on board

What is PROTOS all about?

- PROTOS is a general purpose SAM operating system with a file system according to ISO 7816-4
- Available with T=1 protocol
- Offers DES, 3DES, AES and RSA (2048 bit) algorithm
- Designed for a hierarchical key management system with secure key download and backup mechanism

Integration

The PROTOS SAM is available in 2 types:

- Master SAM
- Field SAM

whereas the master SAM is intended to be part of a background system serving as key management and distribution centre while the field SAM is placed in the field for token authentication and / or other cryptographic purposes.

Applications

- Public transport
- Mifare DESFire
- Mifare Plus
- $\ \, \text{Mifare Ultralight}$
- Any DES or AES based token
- Toll collect
- Healthcare
- Closed payment schemes