
Datasheet

Next-generation technology and smart innovations for a more connected, keyless building experience.



SALTO Keycards CCVD20xx and CCVD40xx

Technical specifications:

The SALTO smart keycards credentials feature the NXP MIFARE DESFire chip, which is certified as per the common criteria EAL5+ security standards. This chip provides the market's top alternative for RFID-based physical key products.

TECHNICAL DATA:

Keycard size :	85,6mm x 54mm x 0.84mm ¹ 3.375" x 2.125" x 0.033
Material:	PVC (Polyvinyl chloride)
Chip manufacturer:	NXP Semiconductors
Chip type:	MIFARE® DESFire® ²

¹ ISO CR-80. Same size and thickness as a standard credit card.

² Please contact SALTO inside sales for information on the latest family evolution available

SALTO PLATFORM COMPATIBILITY:

Version / Model	S	NS	H
D403	—	—	•
D404	•	—	•
D405	—	•	—
D406	•	•	—
D207	•	—	—

COLORS:

Available in white, SALTO design with different colors, or with customer-specific artwork options based on specific customer needs.

White	•	Pantone 10391 C (Metallic)
Blue	•	Pantone Process Blue C
Black	•	Pantone 10391 C (Metallic)
Red	•	Pantone 178 C
Green	•	Pantone 3395 C

RFID MAIN FEATURES:

RF interface: ISO/IEC 14443 Type A

- Contactless interface compliant with ISO/IEC 14443-2/3 A
- Operating frequency: 13.56 MHz
- Fast data transfer: 106 kbit/s, 212 kbit/s, 424 kbit/s, 848 kbit/s
- 7 bytes unique identifier
- Uses ISO/IEC 14443-4 transmission protocol

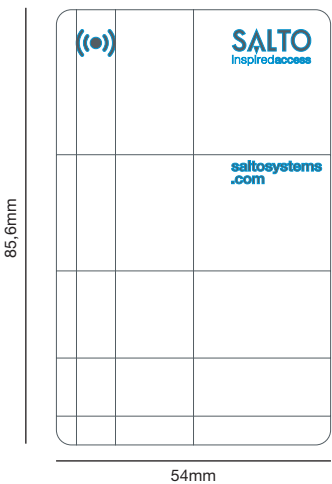
Non-volatile memory

- 2KB (D2xx) or 4 KB (D4xx)
- Data retention of 25 years
- Write endurance typical 1,000,000 cycles
- Fast programming cycle

NV-memory organization and multi-application support

The DESFire PICC-level configuration allows creation of 3rd Party Application without presenting PMK, provided that the intended application fits in the free memory available.

TECHNICAL DRAWING:



Security

- Common Criteria certification: EAL5+ (Hardware and Software)
- Unique 7 bytes serial number for each device
- Mutual three-pass authentication
- Hardware AES using 128-bit keys featuring key version
- Data authenticity by 8 byte CMAC
- MF3ICD40 compatible mode: 4 byte MAC, CRC 16
- Data encryption on RF-channel
- Authentication on application level
- Hardware exception sensors
- Self-securing file system
- Originality Check for proof of genuine NXP's product

Special features

Transaction-oriented automatic anti-tear mechanism with new transaction timer support.



SALTO Systems.

Get in touch with our team.

Give us a brief summary of your needs, your next project and we'll get back to you.

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