
Datasheet

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

SALTO
inspiredaccess



SALTO Keycards 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 2.127" x 3.375" 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	•	•	—

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

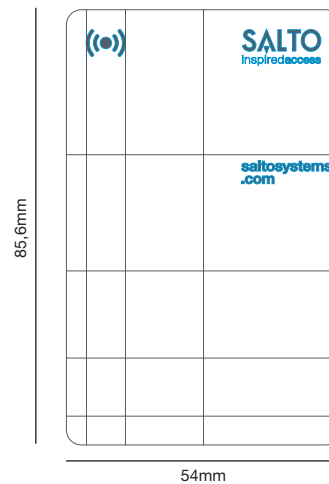
Non-volatile memory

- 4 KB
- 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.

Spain, UK, France, Germany, Switzerland, The Netherlands, Belgium, Poland, Slovakia, Slovenia, Czech Republic, Denmark, Norway, Sweden, Finland, Italy, Portugal, US (NYC - Atlanta - LV), Canada, Mexico, Costa Rica, Colombia, Puerto Rico, Chile, UAE, India, South Africa, Singapore, China, Hong Kong, Korea, Vietnam, Australia, New Zealand.

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