my-d™ move / my-d™ move lean

my-d™ move NFC / my-d™ move lean NFC

SLE 66R01P(N) / SLE 66R01L(N)

Product Information

my-d™ move – SLE 66R01xx
TOP 5 KEY MESSAGES

1. Optimized for the fastest growing market of Limited Use Tickets
2. Dedicated security level for the Limited Use Market providing a password and a value counter
3. Compliant with world wide established ISO/IEC 14443 Type A infrastructures
4. NFC compatible, pre-configured product options available
5. Best cost position paired with small footprint for mass production with existing machines

my-d™ move – SLE 66R01xx
Product Variants - Overview

- **my-d™ move – SLE 66R01P**
  - 128 Byte User Memory, OTP memory, Password, Value Counter
- **my-d™ move NFC – SLE 66R01PN**
  - as SLE 66R01P – already NFC pre-initialized
- **my-d™ move lean – SLE 66R01L**
  - 48 Byte User Memory
- **my-d™ move lean NFC – SLE 66R01LN**
  - as SLE 66R01L – already NFC pre-initialized

IFX Key Differentiators in the LUT market
my-d™ move

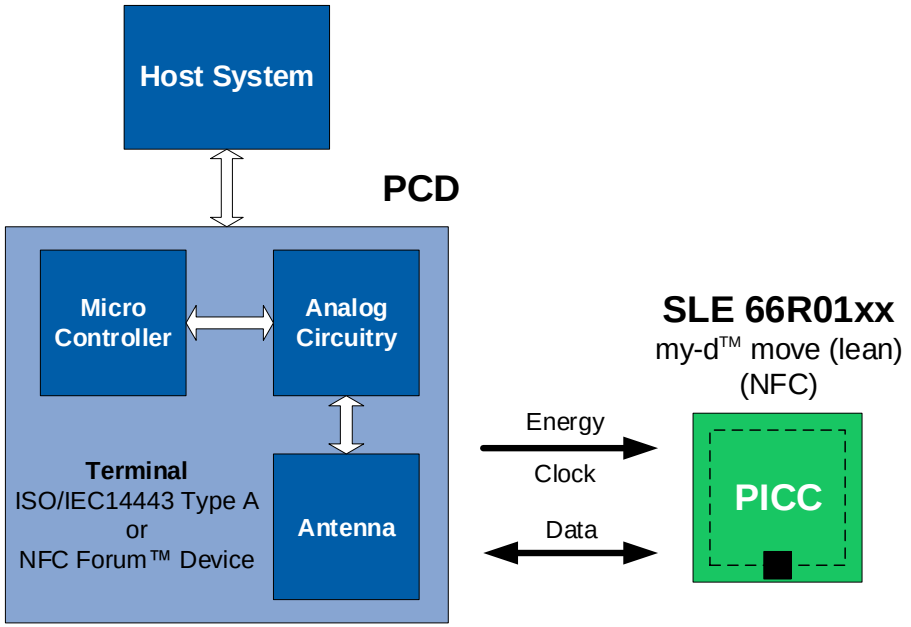
1. my-d™ move is the most cost efficient option amongst the Limited Use Ticket ICs
2. my-d™ move is benchmark regarding CL performance vs.

   NRG (ISO/IEC 14443-3 type A with CRYPTO1)
3. my-d™ move is featuring a password protecting user data read and/or write operations
4. my-d™ move is featuring a value counter to prevent unauthorized re-loading

my-d™ move / my-d™ move lean
Main Features

- **Contactless interface complying with ISO/IEC14443 Type A**
  - Read/Write distance up to 10cm
  - Data rate: 106 kbit/s
- **Memory**
  - 1 Kbit EEPROM / 348 bit EEPROM
  - 128 (48) bytes of User memory (32 (12) blocks)
  - EEPROM update time < 4ms per block
  - ECC error correction for high product quality
  - Block Locking mechanism
- **Chip features**
  - 7 byte UID
  - NFC Forum™ Type 2 Tag compatible
  - on SLE 66R01P & SLE 66R01PN
    - configurable Password (Write or Read/Write)
    - Configurable Password Counter
    - 16 bit Value Counter with Anti-tearing mechanism
  - 32 bit OTP memory area

Sales Code	Family / Product Name
SLE 66R01P	my-d™ move
SLE 66R01PN	my-d™ move NFC
SLE 66R01L	my-d™ move lean
SLE 66R01LN	my-d™ move lean NFC



my-d™ move (lean) – SLE 66R01xx
Competition / Comparision

	Infineon my-d™ move (lean)	NXP	NXP	NXP
Standard	ISO/IEC 14443-3 Type A NFC Forum™ Type 2 Tag	ISO/IEC 14443-3 Type A NFC Forum™ Type 2 Tag	ISO/IEC 14443-3 Type A NFC Forum™ Type 2 Tag	ISO/IEC 14443-3 Type A NFC Forum™ Type 2 Tag
NVM Memory Size (EEPROM)	1216 (512) bit	512 bit	1536 bit	1312 (640) bit
User memory Memory organization	128 (48) Bytes Block size: 4 bytes	48 Bytes Block size: 4 bytes	148 Bytes Block size: 4 bytes	128 (48) Bytes Block size: 4 bytes
EEPROM update time (erase & write)	< 4ms (erase and write)	3.8 ms (write time)	no information	no information
Security	7 Byte UID Block locking Password (write or read/write access configurable) Password Counter	7 Byte UID Block locking	7 Byte UID Block locking 3DES authentication only	7 Byte UID Block locking Password ECC originality signature
Special functionalities	EEPROM with ECC 16 bit Value Counter 32 bit OTP memory Anti-Tearing (OTP area and Counters)	32 bit OTP memory	16 Bit Counter	Three 16 bit Value Counter 32 bit OTP memory Anti-Tearing (OTP, Lock bits and Counters) Fast readout function
Input capacitance	typ. 17pF	17pF ±10% and 50pF ±10%	17pF ±10% and 50pF ±10%	17 pF

my-d™ move – SLE 66R01xx
Competitive Advantage

Customer Value Drivers Customer DECISION criteria	Competitive Advantage Statements Product/System BENEFITS for customer	Customer Value Statements Product/System VALUES to customer (quantified whenever possible)
Optimized for the fastest growing market of Limited Use Tickets	eTicketing is a major global trend. The feature set and functionality of the my-d™ move is optimized for Single Ride or Limited Use Tickets.	For ISO/IEC 14443 compliant infrastructures the my-d™ move is a drop in solution. The dedicated command set supporting the my-d™ move features (password, value counter) can be easily adjusted towards installed readers. Comparison with mag-stripe readers: Reduce infrastructure complexity, remove mechanically sensitive equipment
Dedicated security level for the Limited Use Market	A password protection with retry counter enables a basic security level that is ideal for Limited Use Tickets. Customer talks have unveiled that no sophisticated crypto is needed today.	Passwords can be easily generated and stored. A password diversification for each eTicket can further increased the level of security and can be combined with a read password of the my-d™ move and the password retry counters.
Compliant with the world wide established ISO/IEC 14443 Type A infrastructure	Existing infrastructure is widely based on ISO/IEC 14443 type A, that is also part of NFC Forum™ Type 2 Tag Operation.	All Infineon products dedicated to the transport market are compliant to ISO standards and can be used in parallel within the same infrastructure.
Ideally suited for any NFC application	Being compatible with NFC provides future extension to new applications like Event Ticketing, Device Pairing and also consumer good information. Dedicated, NFC pre-configured product options are available.	The my-d™ move product family supports the NFC Forum™ Type 2 Tag Operation protocol and its extension to more than 64 byte User memory. The my-d™ move supports full 128 byte of user memory – all accessible with NFC devices.
Best cost position paired with small footprint for mass production with existing machines	Our state of the art process allows to build up cost sensitive ICs for the limited use ticket and the single ride ticket market.	Using a less complex process technology combines the ease of manufacturing together with best cost position.

Part of your life. Part of tomorrow.

Infineon