

CRYPTO SECURE MEMORY

NINE CONFIGURATIONS ON A SINGLE IC

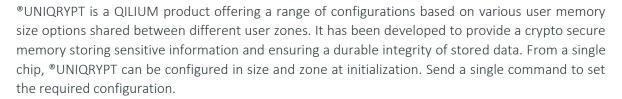
UNIQRYPT is a Crypto-memory

UNIQRYPT® is a flexible and secure crypto secure memory element offering:

9 different configurations on a single IC

contact IC offering various configurations from a single solution

- A secure environment
- > 1-command for configuration
- > Fast communication
- Low purchasing price
- Reduce storing cost



With inherent security features and advanced cryptography, UNIQRYPT offer 4, 8 or 16 zones. Those are individually secure with various read/write protection including independent passwords of 3 bytes length. With UNIQRYPT, you can also use Secure Session (MAC or MAC + ENC) established with AES-128 KEY.

QILIUM works with Flash-based Integrated Circuit ensuring product continuity on different platform. Moreover, flexibility given by Flash memory allows QILIUM to keep lead times and costs at their lowest level.

MAIN FEATURES

- Ultra-Compact Flash Smart Card Integrated Circuit
- 1 platform, 9 different configurations
- Passwords
 - Protect READ and WRITE commands
 - Up to 8 read passwords (3 bytes length)
 - Up to 8 write commands (3 bytes length)
- Keys (v2)
 - Mutual Authentication
 - Up to 4 AES-128 KEYS
 - Secure Messaging (MAC or MAC + ENC)
- Transaction protection system
- Anti-Tearing system
- Communication Speed up to 446 kpbs
- Communication Protocol ISO/IEC 7816-3 | T=0 compliant





Easy Integration

9 configurations

Secure Memory

Contact





Support for configuration

APPLICATIONS

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()}var g=d.f

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- Light identity
- Sensitive Data Storage
- Secure Authentication
- **Loyalty Program**
- Data protection





ATR					
ADMINISTRATIVE CONFIGURATION					
ACCESS CONDITIONS					
READ PASSWORD 1		WRITE PASSWORD 1			
READ PASSWORD 2		WRITE PASSWORD 2			
READ PASSWORD 3		WRITE PASSWORD 3			
READ PASSWORD 4		WRITE PASSWORD 4			
KEY 1		KEY 2			
	KEY 3	KEY 4			
USER MEMORY					
ZONE 0	64 bytes				
ZONE 1	64 bytes				
ZONE 2	64 bytes				
ZONE 3	64 bytes				

MEMORY CONFIGURATIONS

UNIQRYPT is operationally compatible with a series of commands already used by integrators. Based on the ISO 7816-3 standard, UNIQRYPT offers all above-mentioned features and is available in different memory sizes.

SYSTEM	USER MEMORY	ZONES
	1 Kbits	4 zones
	2 Kbits	4 zones
	4 Kbits	4 zones
	8 Kbits	8 zones
UniQrypt	16 Kbits	16 zones
	32 Kbits	16 zones
	64 Kbits	16 zones
	128 Kbits	16 zones
	256 Kbits	16 zones



COMMAND SET

Administrative	COMMANDS	CLA*	INS
	System Write	\$\$	B4
	System Read	\$\$	В6
	Write Password	\$\$	ВА
	Read Password	\$\$	ВА
Operational	Set User zone	\$\$	B4
	Read User Zone	\$\$	B2
	Write User Zone	\$\$	ВО
	Mutual Authenticate	80	82
	Verify Password	\$\$	BA

^{*\$\$ = 0} to FF

COMMANDS DESCRIPTION

COMMANDS	DESCRIPTION		
System Write*	Write Passwords, Keys and Access conditions in the system area		
System Read*	Read System Area (cf. previous row)		
Write Password*	Set up read/write passwords (up to 8 by type)		
Read Password	Get read/ write passwords (up to 8 by type)		
Set User zone	Select active Area		
Write User Zone**	Write User Data		
Read User Zone	Get User Data		
Mutual Authenticate (v2)	Establish Secure Session (cf. c) Secure Messaging)		
Verify Password	Check Password Validity		

^{*}Command allowed after PASSWORD presentation



^{**} Command allowed after access data conditions completion