



Product Brief



CIU9872B_01

CIU9872B_01 is a smart card chip with dual interface developed based on the ARM 32bit SecurCore SC000. Adopt FLASH memories for the data storage .Support ISO/IEC 14443 TYPEA、 ISO/IEC 7816 T=0/1 for communication. Support DES/3DES、 AES、 RSA 、 ECC security algorithm.

Core		Security	
CPU	32bit	Crypto	Support DES/3DES/AES/CRC
System clock	72MHz		Support RSA/ECC
Timer	2 *16/32bit Timers		RNG
Memories		Memory	Memory access permission protection mode
FLASH	306KB	Sensors	Support safe sensor reset function
	Program cycling >500k data retention time >25 years	Active Shielding	Support
RAM	12KB	Unique serial numbe	The unique serial number of the chip cannot be changed
Interface		Self-check function	Support
7816	Supports ISO/IEC 7816-3 T=0/1	Packaging forms	
	1MHz~10MHz	Module	Contact
Supports ISO/IEC 14443 Type A Baud rate: 106/212/424/848kbit/s	Contactless		
GPIO	2	Circuit	DFN8
I2C	Supports Master/Slave	Typical Application	
	Supports 400kHz/1MHz	Standard financial payment	
	Configurable as GPIO		
Electric Features			
Voltage	1.62~5.5V		
Temperature	-40℃~105℃		
ESD	6kV (HBM) (Contact)		
	4kV (HBM) (Contactless)		