

IDT-1001MF

Cartele de proximitate cu cip Mifare S50 (13.56Mhz) 1KB

Imagine



Descriere

IDT-1001MF este o cartela de proximitate cu cip Mifare S50 (13.56Mhz) ce poate fi folosita in diverse aplicatii de control acces, sisteme publice de taxare, sisteme de fidelizare etc. Suprafata neteda acoperita de folie protectoare, precum si designul subtire de doar 0.76mm permit personalizarea acestora.

Caracteristici

- Cip Mifare S50 (13.56Mhz)
- Memorie EEPROM 1KB (16 sectoare x 4 blocuri x 16 bytes)
- Rezistenta la apa
- Distanța de operare: 100mm (depinde de amplasarea antenei)
- Protectie la descarcari electrostatice (1000V)
- Conform ISO14443

Specificatii

- Functie anti-coliziune
- Distanța de operare: 100mm (depinde de amplasarea antenei)
- Protectie la descarcari electrostatice (1000V)
- Securitate sporita
- Timp de procesare al tranzactiei de ticketing mai mic de 100ms
- Rata de transfer: 106 kbit/s
- Memorie EEPROM organizata in 16 sectoare si 4 blocuri (un bloc - 16 biti)
- Perioada de retentie a datelor: 10 ani
- Cicluri de scriere: 100.000
- Temperatura de operare: -40 ~ +65 °C
- Culori disponibile: alb
- Material: PVC
- Dimensiuni: 86(L) x 54(l) x 0.8(A) mm
- Greutate: 6 g

Simbol	Parametri	Conditii	Min	Tip	Max	Unitate
C _i	Capacitanta		14.4	16.1	17.4	pF
f _i	Frecventa		-	13.56	-	MHz

Caracteristici EEPROM

t _{ret}	retentia datelor	amb = 22 °C	10	-	-	an
N _{endu(W)}	scrierea datelor	amb = 22 °C	100000	200000	-	ciclu

T_{amb} = 22 °C, f_i = 13.56 MHz, 2 V RMS.

Timpul de scriere a datelor

	T _{ACK min}	T _{ACK max}	T _{NAK min}	T _{NAK max}	T _{TimeOut}
Write part 1	71 μs	T _{TimeOut}	71 μs	T _{TimeOut}	5 ms
Write part 2	71 μs	T _{TimeOut}	71 μs	T _{TimeOut}	10 ms

	T _{ACK min}	T _{ACK max}	T _{NAK min}	T _{NAK max}	T _{TimeOut}
Increment, Decrement, and Restore part 1	71 μs	T _{TimeOut}	71 μs	T _{TimeOut}	5 ms
Increment, Decrement, and Restore part 2	71 μs	T _{TimeOut}	71 μs	T _{TimeOut}	5 ms

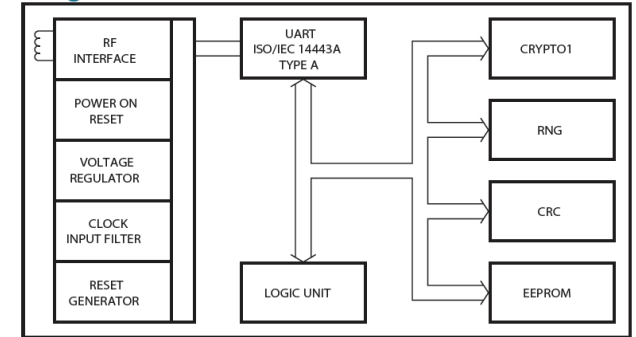
Timpul de transfer al datelor

	T _{ACK min}	T _{ACK max}	T _{NAK min}	T _{NAK max}	T _{TimeOut}
Transfer	71 μs	T _{TimeOut}	71 μs	T _{TimeOut}	10 ms

Organizarea memoriei

Sector	Block	Byte Number within a Block																Description
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
15	3	Key A				Access Bits				Key B								Sector Trailer 15
	2																	Data
	1																	Data
	0																	Data
14	3	Key A				Access Bits				Key B								Sector Trailer 14
	2																	Data
	1																	Data
	0																	Data
:	:																	
:	:																	
:	:																	
1	3	Key A				Access Bits				Key B								Sector Trailer 1
	2																	Data
	1																	Data
	0																	Data
0	3	Key A				Access Bits				Key B								Sector Trailer 0
	2																	Data
	1																	Data
	0	Manufacturer Data																Manufacturer Block

Diagrama blocurilor



Observatii