IDT-2000MF

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

Imagine

Descriere

IDT-2000MF este un tag de proximitate cu cip Mifare S50 (13.56Mhz) ce poate fi folosit in diverse aplicatii de control acces, sisteme publice de taxare, sisteme de fidelizare etc.

Caracteristici

- Cip Mifare S50 (13.56Mhz)
- Memorie EEPROM 1KB (16 sectoare x 4 blocuri x 16 bytes)
- Rezistenta la apa
- Distanta de operare: 100mm (depinde de amplasarea antenei)
- Protectie la descarcari electrostatice (1000V)
- Format Wiegand 34
- Culori disponibile: rosu, verde, albastru, gri

Specificatii

- Functie anti-coliziune
- Distanta 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

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 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

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Fisa tehnica

Timpul de scriere a datelor

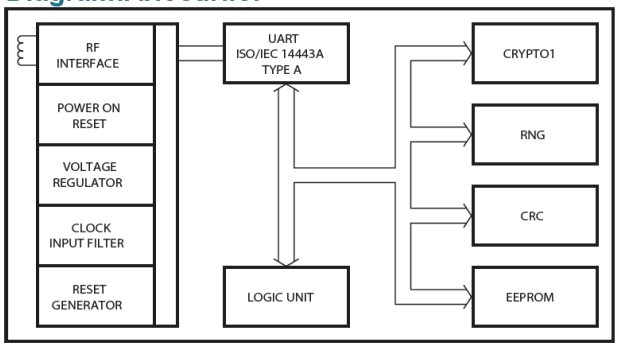
	T_{ACK} min	T_{ACK} max	T_{NAK} min	T_{NAK} max	$T_{TimeOut}$
Write part 1	71 µs	$T_{TimeOut}$	71 µs	$T_{TimeOut}$	5 ms
Write part 2	71 µs	$T_{TimeOut}$	71 µs	$T_{TimeOut}$	10 ms

	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

Organizarea memoriei

Sector	Block	Byte Number within a Block 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Description
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

EEE FAC OBIECTUL UNEI COLECTARI SEPARATE

CE