Mifare Block Address

Relevant Devices

This application note applies to the following devices CM015B-1, CM015M-1, CM025B, CM025M, CM030, CM031, CM032, CM018

Introduction

The memory of Mifare 1k is organized in 16 sectors with 4 blocks. Mifare 4k is organized in 32 sectors with 4 blocks and 8 sectors with 16 blocks. On chenningcard's modules, use absolute block address instead of offset.

Sample command stream for serial port devices

(CM015B-1, CM015M-1, CM025B, CM025M, CM031, CM032)

• Select Card

Preamble	Len	Command	Checksum
BA	02	01	B9

• Login Sector0

Preamble	Len	Command	Sector	Туре	Key	Checksum
BA	0A	02	00	AA	FFFFFFFFFFFFF	18

• Read Block1 in Sector0, the absolute block address is 1

Preamble	Len	Command	Blcok address	Checksum
BA	03	03	01	BB

• Login Sector1

Preamble	Len	Command	Sector	Туре	Key	Checksum
BA	0A	02	01	AA	FFFFFFFFFFFFF	19

• Read Block1 in Sector1, the absolute block address is 5

Preamble	Len	Command	Blcok address	Checksum
BA	03	03	05	BF

Sample command stream for IIC interface devices (CM018, CM030)

• Select Card

Device Address	Len	Command
A0	01	01

• Login Sector0

Device Address	Len	Command	Sector	Туре	Key
A0	09	02	00	AA	FFFFFFFFFFFFF

• Read Block1 in Sector0, the absolute block address is 1

Device Address	Len	Command	Blcok address
BA	02	03	01

• Login Sector1

Device Address	Len	Command	Sector	Туре	Key
A0	09	02	00	AA	FFFFFFFFFFFFF

• Read Block1 in Sector1, the absolute block address is 5

Device Address	Len	Command	Blcok address
A0	02	03	05