StrongLink AN100721

# **Mifare Block Address**

#### **Relevant Devices**

This application note applies to the following devices SL015B-1, SL015M-1, SL025B, SL025M, SL031, SL032, SL030, SL018

#### 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 Stronglink's modules, use absolute block address instead of offset.

# Sample command stream for serial port devices

(SL015B-1, SL015M-1, SL025B, SL025M, SL031, SL032)

#### • Select Card

Preamble	Len	Command	Checksum
BA	02	01	B9

#### • Login Sector0

Preamble	Len	Command	Sector	Type	Key	Checksum
BA	0A	02	00	AA	FFFFFFFFFF	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	Type	Key	Checksum
BA	0A	02	01	AA	FFFFFFFFFF	19

1

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

Preamble	Len	Command	Blcok address	Checksum
BA	03	03	05	BF

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# Sample command stream for IIC interface devices (SL018, SL030)

#### • Select Card

Device Address	Len	Command
A0	01	01

# • Login Sector0

Device Address	Len	Command	Sector	Type	Key
A0	09	02	00	AA	FFFFFFFFFF

# • 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	Type	Key
A0	09	02	00	AA	FFFFFFFFFF

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

Device Address	Len	Command	Blcok address
A0	02	03	05