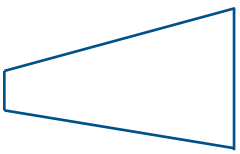
3.2 MIFARE® Standard

The MIFARE® Standard Card consists of 16 sectors. Each sector has 4 blocks. Each block has 16 bytes.

MIFARE® Standard
Sector 0
Sector 1
Sector 2
Sector 15



Sectors
Block 8: Data or value (4 bytes)
Block 9: Data or value (4 bytes)
Block 10: Data or value (4 bytes)
Block 11: Access conditions, Key A, Key B

Sector 0/Block 0 is unique card ID and Manufacturer code; read only.

Sector 0/Block 0 This block is read only!

Serial number (4 byte)	Check byte (1 byte)	Manufacturer data (11byte)

Block 3, 7, 11, 15, ...

Key A (6 bytes)	Access conditions (4 bytes)	Key B (6 bytes)

Transport keys (keys after manufacturing, on delivery):

Key A: A0 A1 A2 A3 A4 A5 (Infineon) or FF FF FF FF FF FF (Philips)
Key B: B0 B1 B2 B3 B4 B5 (Infineon) or FF FF FF FF FF FF (Philips)

Access conditions: FF 07 80 xx (key A is used to read or write, the key A itself is not readable, key B is data only)

Remark 1
Enabled keys read as 00 00 00 00 00

Remark 2
It is not recommended to use key B as data, because faulty modification of this block will inhibit any further access. Further security will be endangered.

3.3 MIFARE® Light

The MIFARE® Light Card consists of 12 pages. Each page has 4 bytes. The MIFARE® Light Card can be viewed as a MIFARE Card with one sector only.

Page 0	ID
Page 1	
Page 2	Data
Page 3	
Page 4	Value
Page 5	

Page 6	Key A, Access conditions
Page 7	
Page 8	Key B, Access conditions
Page 9	
Page A	Data
Page B	