Technical Specification
[Preliminary]

Ver 1.0.0

Secured Command and Protocol 7816

XIRKA

Abstract

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Version Control (C.B.A)

A. Correction initiated by designer.

B. Correction initiated by chief engineer.

C. Correction initiated by Xirka Silicon Technologies.

Revision History

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Distribution List

Number of Distribution	Distributor

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1. PROTOCOL

1.1   Write

1. Select MF
Command : 00 A4 00 00 02 3F 00
Response : 61 xx

2. Select DF
Command : 00 A4 00 00 02 10 01
Response : 61 xx

10 01 : File ID

3. Select EF
Command: 00 A4 00 00 02 01 02
Response: 61 xx

01 02 : File ID

4. Write Data
Command : 00 D0 00 00 12 49 44 4e 47 4c 41 44 48 49 3c 47 55 41 52 44 44 49 4e
Response : 90 00

12 : length data
49 44 4e 47 4c 41 44 48 49 3c 47 55 41 52 44 44 49 4e : data

1.2   Read

1. Select MF
Command : 00 A4 00 00 02 3F 00
Response : 61 xx

2. Select DF
Command : 00 A4 00 00 02 10 01
Response : 61 xx

10 01 : File ID

3. Select EF
Command: 00 A4 00 00 02 01 02
Response: 61 xx

01 02 : File ID

4. Read Data
Command : 00 B0 00 00 12
Response : 49 44 4e 47 4c 41 44 48 49 3c 47 55 41 52 44 44 49 4e 90 00

12 : length data
49 44 4e 47 4c 41 44 48 49 3c 47 55 41 52 44 44 49 4e : data

2. CARD COMMAND

2.1 Get UID

Command

CLA	00
INS	CA
P1	00
P2	00
P3	07

Response

Card Spec 1	7 byte UID
Status	90 00

2.2 Select File

Command

CLA	00
INS	A4
P1	00
P2	00
P3	02
File ID	2 byte

Response

Status	61 nn

2.3 Write Data

Command

CLA	00
INS	D0
P1	2 byte (offset)
P2	
P3	nn (length data)
Data	nn byte

Response

Status	90 00

2.4 Read Data

Command

CLA	00

INS	B0
P1 P2	2 byte (offset)
P3	nn (length data)

Response

Data	nn byte
Status	90 00