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Card Dispenser
SK-AD1-1
API Descriptions

REV: A 2011-01-03

Revision History

REV.	DATE	ENGINEER	DESCRIPTION
A	2011-12-03	Mr Liu	Newly Issued

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1. Descriptions

This document includes SK-AD1-1 card dispenser machine API descriptions and SDK (software developer's kit) provides following files for development uses:

AD1_1_API.h	Header library
AD1_1_API.lib	Library files
AD1_1_API.dll	Dynamic Link Library

2. API Reference

2.1. AD1_1_Connect

AD1_1_Connect establishes a connection between calling program and the C/D.

```
LONG
WINAPI
AD1_1_Connect(
    IN   DWORD     dwPortNumber,
    IN   DWORD     dwBaudRate,
    IN   BYTE    bAddress,
    OUT     PISSUERHANDLE phIssuer
    );
```

Parameters

dwPortNumber	COM port number	Possible values are: 1 ~ 256.
dwBaudRate	Baud rate 1200 2400 4800 9600 19200 38400	Possible values are:
bAddress	C/D Address	Possible values are: 0~15.
phIssuer	Receives a handle that identifies the connection to the C/D.	

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Return values

If the function succeeds, the return value is 0.

If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.2. AD1_1_Disconnect

Disconnect calling program and C/D.

```
LONG
WINAPI
AD1_1_Disconnect(
    IN   ISSUERHANDLE hIssuer
    );
```

Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

Return values

If the function succeeds, the return value is 0.

If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.3.AD1_1_SetBaudRate

Set baud rate.

```
LONG
WINAPI
AD1_1_SetBaudRate(
    IN   ISSUERHANDLE hIssuer,
    IN   DWORD dwBaudRate
    );
```

Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

dwBaudRate   Baud rate   Possible values are:
                 1200

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2400
4800
9600
19200
38400

Return values

If the function succeeds, the return value is 0.
If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.4. AD1_1_Reset

Reset F1.

```
LONG
WINAPI
AD1_1_Reset(
    IN   ISSUERHANDLE hIssuer
    );
```

Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

Return values

If the function succeeds, the return value is 0.
If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.7. AD1_1_GetStatus

Get C/D status.

```
LONG
WINAPI
AD1_1_GetStatus(
    IN   ISSUERHANDLE hIssuer,
    OUT    PDWORD    pdwStatusFlags
    );
```

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Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

pbAddress   Receive status returned from AD1_1_Connect. Possible values are one or more
                         of the following:

STATUS_CAPTURE_BOX_FULL	Capture box full.
STATUS_DISPENSING	Dispensing card.
STATUS_CAPTURING	Capturing card.
STATUS_DISPENSE_ERROR	Dispense error.
STATUS_CAPTURE_ERROR	Counter error.
STATUS_CARD_OVERLAPPED	Card overlapped.
STATUS_CARD_JAMMED	Card jammed.
STATUS_CARD_INSUFFICIENT	Card box insufficient.
STATUS_CARD_BOX_EMPTY	Card box empty.
STATUS_S3_CARD_IN	S3 detects card.
STATUS_S2_CARD_IN	S2 detects card.
STATUS_S1_CARD_IN	S1 detects card.

Return values

If the function succeeds, the return value is 0.
If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.8. AD1_1_Dispense

Dispense card.

```
LONG
WINAPI
AD1_1_Dispense(
    IN   ISSUERHANDLE hIssuer,
    IN   BYTE    bMode
    );
```

Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

bMode   Dispensing mode   Possible values are:
                         DISP_EJECT_TO_FRONT   Eject card to the front.
                         DISP_RETURN_TO_FRONT   Dispense card to the front.

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DISP_RETURN_TO_READ_POS   Dispenser card to reading position.

Return values

If the function succeeds, the return value is 0.

If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.9. AD1_1_Capture

Capture card.
LONG
WINAPI
AD1_1_Capture(
    IN   ISSUERHANDLE hIssuer
    );

Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

Return values

If the function succeeds, the return value is 0.

If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.10. AD1_1_SetEntryMode

Set entry mode.

LONG
AD1_1_SetEntryMode(
    IN   ISSUERHANDLE hIssuer,
    IN   BYTE   bMode
    );

Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

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bMode	Entry mode.	Possible values are:
	EM_PROHIBITED	Entry prohibited.
	EM_CAPTURE_TO_BOX	Entry permitted and capture card.
	EM_DOCKED_TO_READ_POS	Entry permitted and move card to reading

position.

Return values

If the function succeeds, the return value is 0.
If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

2.11. AD1_1_GetEntryMode

Get entry mode.

```
LONG
AD1_1_GetEntryMode(
    IN    ISSUERHANDLE hIssuer,
    OUT    PBYTE  pbMode
    );
```

Parameters

hIssuer   Refer to handle value returned from AD1_1_Connect.

pbMode	Receive entry mode.	Possible values are:
	EM_PROHIBITED	Entry prohibited.
	EM_CAPTURE_TO_BOX	Entry permitted and capture card.
	EM_DOCKED_TO_READ_POS	Entry permitted and move card to reading
	position.	

Return values

If the function succeeds, the return value is 0.
If the function fails, the return value is an error code (see Error Codes for a list of all error codes).

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3. Error Codes

AD1_1_E_DEVICE_UNRECOGNIZED   Device unrecognized.

AD1_1_E_PORT_UNAVAILABLE   The Specified COM port is not exist or occupied by the other application.

AD1_1_E_UNKNOWN_ERROR   Unknown error detected.

AD1_1_E_INTERNAL_ERROR   Communication data incorrect or loss.

AD1_1_E_COMM_TIMEOUT   Communication timeout.

AD1_1_E_INVALID_HANDLE   Invalid handle.

AD1_1_E_INVALID_PARAMETER   One or more parameter(s) invalid.

AD1_1_E_NO_MEMORY   Insufficient memory to fulfill current operations.

AD1_1_E_BUFFER_TOO_SMALL   Too small buffer for receiving returned message.