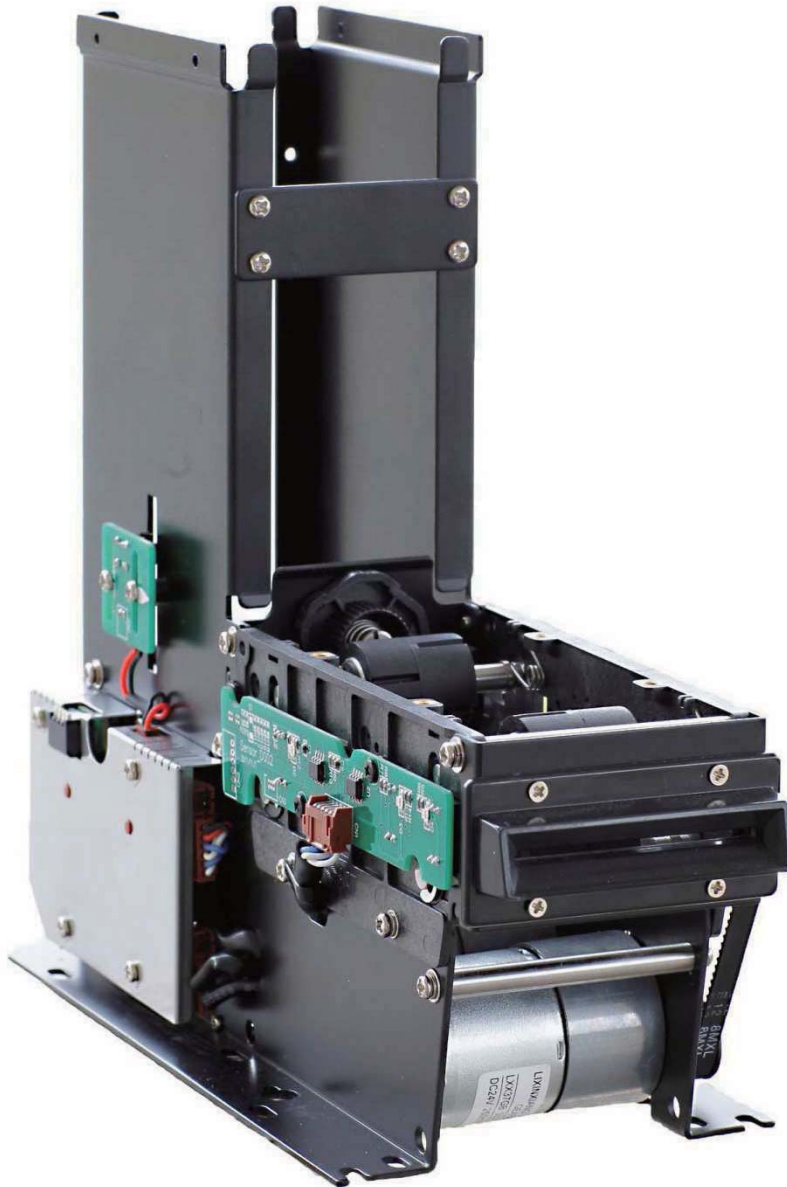


# F1-1000 DLL Instructions



## 1. Files:

- (1). ACT\_F1\_1000.dll
- (2). ACT\_F1\_1000.lib
- (3). ACT\_F1\_1000.h

## 2. Series port basic operation functions:

### (1). Open Series Port:

HANDLE APIENTRY ACT\_CommOpen(char\*Port);

Parameter:

Port: Series number character string

Example: ACT\_CommOpen("Com1");

Return:

Series port files handle

Remark: This function must be first loading to get assigned series port file handle, then other function can be loaded. Open several port to get several series port file handle at the same is available, but can not time after time open the same port. Loading ACT\_CommClosed() close series port.

### (2). Open Series port by a set baud rate:

HANDLE APIENTRY ACT\_CommOpenWithBaut(char\*Port, unsigned int\_data);

Parameter:

Port: Series port number character string

\_data setting baud rate

Baud rate=1200,2400,4800,9600,38400

Example: ACT\_CommOpen("Com1",9600);

Return:

Series port file handle

Remark: This function must be first loading to get assigned series port file handle, then other function can be loaded. Open several port to get several series port file handle at the same is available, but can not time after time open the same port. Loading ACT\_CommClosed() close series port.

### (3). Close assigned series port:

intAPIENTRY ACT\_CommClose(HANDLE ComHandle);

Parameter:

ComHandle: Series port handle

Return:

0=Success!

## 3. Dispenser Operate Function:

(1). Check status: int\_stdcall ACT\_F1\_Get Status (HANDLE ComHandle, BOOL bHasMac\_Addr, UCHAR MacAddr, BYTE States[3], DWORD dwTimeoutms);

Parameter:

ComHandle: Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, following

sheet is for other address setting:

**[SHEET 01]:**

Switch				Address
4	3	2	1	
ON	ON	ON	ON	00
ON	ON	ON	OFF	01
ON	ON	OFF	ON	02
ON	ON	OFF	OFF	03
ON	OFF	ON	ON	04
ON	OFF	ON	OFF	05
ON	OFF	OFF	ON	06
ON	OFF	OFF	OFF	07
OFF	ON	ON	ON	08
OFF	ON	ON	OFF	09
OFF	ON	OFF	ON	10
OFF	ON	OFF	OFF	11
OFF	OFF	ON	ON	12
OFF	OFF	ON	OFF	13
OFF	OFF	OFF	ON	14
OFF	OFF	OFF	OFF	15

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

States[3]: Dispenser status, refer to following sheet:

**[SHEET 02]:**

HEX	BIN			STATUS
800	1000	0000	0000	Dispensing card
400	0100	0000	0000	Collecting card
200	0010	0000	0000	Dispense card error
100	0001	0000	0000	Collect card error
080	0000	1000	0000	(NA)
040	0000	0100	0000	Double card
020	0000	0010	0000	Jam card
010	0000	0001	0000	Card empty alarm
008	0000	0000	1000	Card empty
004	0000	0000	0100	Light sensor 3 status
002	0000	0000	0010	Light sensor 2 status
001	0000	0000	0001	Light sensor 1 status

DwTimeoutms: overtime setting ( Unit: mS )

Return value: Success=0

Fail= Non-0

(2). Check status:

```
int __stdcall ACT_F1_High_GetStatus(HANDLE ComHandle, BOOL bHasMac_Addr ,UCHAR MacAddr ,BYTE States[4] ,DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

States[4]: Dispenser status, refer to following sheet:

HEX	BIN	STATUS
8000		(N/A)
4000		(N/A)
2000	0010 0000 0000 0000	(N/A)
1000	0001 0000 0000 0000	Reclaim bin was full
0800	0000 1000 0000 0000	Dispensing card
0400	0000 0100 0000 0000	Collecting card
0200	0000 0010 0000 0000	Dispense card error
0100	0000 0001 0000 0000	Collect card error
0080	0000 0000 1000 0000	(N/A)
0040	0000 0000 0100 0000	Double card
0020	0000 0000 0010 0000	Jam card
0010	0000 0000 0001 0000	Card empty alarm
0008	0000 0000 0000 1000	card empty
0004	0000 0000 0000 0100	Sensor 3 status
0002	0000 0000 0000 0010	Sensor 2 status
0001	0000 0000 0000 0001	Sensor 1 status

DwTimeoutms: overtime setting ( Unit: mS )

Return value: Success=0

Fail= Non-0

(3). Reset Dispenser:

```
int __stdcall ACT_F1_Reset (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR  
MacAddr, DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;  
Funcion transfer fail, return non-0. :

---

(4). Setting Baud Rate:

```
int __stdcall ACT_F1_Baud_Set(HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR  
MacAddr, BYTE Baud, DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

Baud =0,1,2,3,4,5=1200, 2400, 4800, 9600, 19200, 38400。

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Funcion transfer fail, return non-0. :

!!!Note: After this command excuted success, must close series port and change upper computer baud rate to communicate, then operate dispenser. Default baud rate: 9600.

---

(5). Dispense cards:

```
int __stdcall ACT_F1_Eject (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR MacAddr,  
DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Funcion transfer fail, return non-0.

---

(6). Collect Cards:

```
int __stdcall ACT_F1_Collect (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR MacAddr, DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Function transfer fail, return non-0.

---

(7) Dispense card out of port:

```
int __stdcall ACT_F1_Eject_Out (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR MacAddr, DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Function transfer fail, return non-0.

---

(8). Dispense card to port and hold on.

```
int __stdcall ACT_F1_Eject_Nip (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR MacAddr, DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Funcion transfer fail, return non-0.

(9). Dispense card to reading position (sensor 2)

```
int __stdcall ACT_F1_Eject_Read (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR MacAddr,
DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Funcion transfer fail, return non-0.

(10). Port card entry setting:

```
int __stdcall ACT_F1_OutCard_Set (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR
MacAddr, BYTE Way, DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

Way : Card exit port entry card setting;

Way = 0x30 Forbid exit port entry card.

- = 0x31 Enable entry card, card collect to reclaim bin.
- = 0x32 Enable entry card, entry card and stay in the reading position.

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Funcion transfer fail, return non-0.

(11). Exit card port status:

```
int __stdcall ACT_F1_OutStatus (HANDLE ComHandle, BOOL bHasMac_Addr, UCHAR
MacAddr, BYTE *Status, DWORD dwTimeoutms);
```

Parameter:

ComHandle:

Series port file handle, refer to ACT\_CommOpen() function.

bHasMac\_addr: Disable/enable address.

Disable: bHasMac\_Addr=false

Enable: bHasMac\_Addr=true

MacAddr: Communicate address, there is switch setting on the device, default address is 15, Setting refer to above “[SHEET 01]:

Example: address is 01, then MacAddr=01; address is 15, then MacAddr=15.

Status: Exit card port status

Status= 0x30 Forbid exit port entry card.

= 0x31 Enable entry card, card collect to reclaim bin.

= 0x32 Enable entry card, entry card and stay in the reading position.

dwTimeoutms: Overtime setting (Unit: mS)

Return value:

Function transfer success, return 0;

Funcion transfer fail, return non-0.

(12). Error code Sheet:

Error Code		Meaning
Bad_CommOpen	-101	Open Comm Error
Bad_CommSet	-102	Comm parameter setting error
Bad_CommTimeouts	-999	Comm overtime setting error
Bad_CommQueue	-998	Buffer setting error
Bad_CommClose	-105	Close Comm error
Err_COM_CANTFOUND	-99	Can't fine Comm
ERR_COM_SEND_WAIT_FAILED	-1000	Comm sending command error
ERR_COM_RECD_WAIT_FAILED	-1001	Comm receive command error
ERR_COM_SEND_TIMEOUT	-1002	Comm sending command overtime
ERR_COM_RECD_TIMEOUT	-1003	Comm receive command overtime
ERR_COMR_ACK	-104	Comm receive ACK error or over time
ERR	-1	Execute command fail
COM_CMD_OK / OK	0	Execute command success