

# ICT004 General Potocol For RS232

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\* History : The documentation rename and modified from TEL\_DEVICE.DOC

\*  
\* Difference : The difference between ICT002 and ICT001 (used in BL-700R) is as below

\*  
\* Action 3 : code 21h,25h,26h,27h,28h,29h,2Ah

\*  
\* Usage : The protocol has been used in A6,A7,UF,J830,S6 RS-232.

\*  
\* Revised by Jason & Kevin & Jason\_Lu

\*  
\* Revised dated : 2004/7/14

\*=====\*

## -Transmission Specification -----

Transmission Method	Full Duplex Transmission
Transmission Speed	9600 Baud Rate
Synchronizing Method	Asynchronous Method
Connection Control Method	Request Method
Data Format	
Start bit	1
Data bit	8
Parity bit	Even
Stop bit	1
X parameter	None

**Action 1:**

( **Bill Acceptor** )

( **Controller** )

( **Power Supply ON** )-----

80h (128) ----->

8fh (143) ----->

( Handle Request )

:

:

( Within 2 Second)

<-----

02h (02)

( Handle Response )

( Receive 02h ,Communication Successful)

**Exception----- ( No Received 02h , Within 2 Second )-----**

( Communication Failure )

26h (38) ----->

( No Response )

Disable Bill Acceptor To "Inhibit" Status

\* But,The Controller Can Transfer Data (02h),Return To Normal Status ,

To restart trade anytime .

**Action 2:**

( **Bill Acceptor** )

( **Controller** )

**Escrow-----(When validator verify bill)-----**

81h ----- >

( Judge Bill OK )

40h ... 44h ----- >

( Response Bill Value )

( exp : 40h (64)- - - > first Bill Kind (example US\$1)

41h (65)- - - > Second Bill Type ( US\$5)

42h (66)- - - > Third Bill Type

43h (67)- - - > Fourth Bill Type

44h (68)- - - > Fifth Bill Type )

< -----

02h (02)

( Request Accept )

< -----

Or

0fh (15)

( Response Reject )

:

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**Stacked-----(When validator verify bill)-----**

10h (16) ----- >

( Bill Accept Finish ) Or

11h (17) ----- >

( Bill Accept Failure )

Controller need not respond.

**-Exception----- ( Response Bill Value , No Request "Accept Or Reject Command" )----**

( 5 secs Time Out and Reject Bill Every Time )

( If it continue 3 Times ,Bill Acceptor Response Communication Failure )

**Action 3:**

( **Bill Acceptor** )

( **Controller** )

**-Other Message--( When Bill Acceptor Happen Exception Status)**

- 20h (32)            - - - - - > ( Response Motor Failure )
- 21h (33)            - - - - - > ( Response CheckSum Error)
- 22h (34)            - - - - - > ( Response Bill Jam )
- 23h (35)            - - - - - > ( Response Bill Remove )
- 24h (36)            - - - - - > ( Response Stacker Open )
- 25h (37)            - - - - - > ( Response Sensor Problem )
- 27h (39)            - - - - - > ( Response Bill Fish )
- 28h (40)            - - - - - > ( Response Stacker Problem )
- 29h (41)            - - - - - > ( Response Bill Reject )
- 2Ah (39)            - - - - - > ( Response Invalid Command)
  
- :
- :
- 2eh (46)            - - - - - > ( Response Reserved )
- 2fh (47)            - - - - - > ( Response When Error Status is Exclusion )

( In normal case B.A. send this code every 30 secs.)  
( Controller Havn't to Response)

**Action 4:**

**-Inhibit ( Response & Request )-----**

- ←-----3eh(62)  
(controller Enable Bill Acceptor)
- ←-----5eh(94)  
(controller Disable Bill Acceptor)

## Action 5:

### -Controller Polling Bill Acceptor

( Bill Acceptor )

( Controller)

< - - - -

0ch (12)

( Request Bill Accept Status )

20h (32)	----->	( Response Motor Failure )
21h (33)	----->	( Response CheckSum Error)
22h (34)	----->	( Response Bill Jam )
23h (35)	----->	( Response Bill Remove )
24h (36)	----->	( Response Stacker Open )
25h (37)	----->	( Response Sensor Problem )
27h (39)	----->	( Response Bill Fish )
28h (40)	----->	( Response Stacker Problem )
29h (41)	----->	( Response Bill Reject )
2Ah (39)	----->	( Response Invalid Command)
3eh (62)	----->	( Response Bill Accept Enable Status )
5eh (94)	----->	( Response Bill Accept Inhibit Status )

## Action 6:

( Bill Acceptor )

( Controller)

<-----

30H

(Command Bill Acceptor Reset)

80h (128)	----->
8fh (143)	----->

( Handle Request )

:

:

( Within 2 Second)

< - - - -

02h (02)

( Handle Response )

( Receive 02h ,Communication Successful)

**Exception----- ( No Received 02h , Within 2 Second )-----**

( Communication Failure )

26h (38)	----->	( No Response )
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Disable Bill Acceptor To "Inhibit" Status

\* But,The Controller Can Transfer Data (02h),Return To Normal Status ,

To restart trade anytime .