

Software Information Sheet



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General Information

Model Name:	UBA-10/11/12-SS	SW Req. No.	G08-164	
SW. Name:	UBA-10(SUR)-SS ID-003	Date: (mm,dd,yyyy)	07.16.2008	Rev: B1
SW. Version:	V1.76-16	Note:	-	
Country (Code):	Suriname (SUR)	Guide:	Non	
Currency:	Dollar	Check Sum:	6989	
Direction:	4Way	CRC (seed= 0000):	21D1	

Denomination: Years & MRI Ident # 66th	Denomi.	Printed	Issued	MRI#
	5		'04	SRD5.1
	10		'04	SRD10.1
	20		'04, '06	SRD20.1
	50		'04	SRD50.1
	100		'04	SRD100.1
Acceptance Rate:	No less than 98%			
UBA USB Tool Suite	UBA USB Tool Suite Version 1.06			
AccLoad Program:	NEW ACCLOAD V1.19			
Barcode Ticket:	Accepts JCM specified barcode tickets.			
ICB	ICB feature is enabled or disabled with an ICB Enable / Disable barcode ticket or with the ICB Enable / Disable Command.			
EPROM:	8 Mbit, 100 nano-second data access, or faster. ST Part M27C801-100F1 or equivalent			
Modifications:	V1.45-14 => V1.76-16			
Validation:	1. Improved the banknotes recognitions for the \$5, \$10, \$20, and \$50.			
Operation:	<ol style="list-style-type: none"> 1. Added the static-measures. <ul style="list-style-type: none"> - Added an auto retry and recovery functions in case of the static communication failure with the upper sensor board. In case no problems are found after the retry, the communication will be recovered, and in case of a defect even after the communication recovery, that will be treated as an error. - Added the auto-retry function to the PB operation. The defect after the auto-retry will be treated as an error. - Modified the cheat detection. 2. Modified the power recovery operation. (The same as the AUS software.) <ul style="list-style-type: none"> - If a plastic note is inserted, and power is removed prior to the escrow, there was a possibility that the note was not rejected due to the clear window. In this version, this has been corrected. 3. Support the UBA USB Tool Suite program. 4. Changed the software so that the UBA can determine the size of the cash box installed by reading the Version of the ICB when powering up. 5. Improved the ICB operations. <ul style="list-style-type: none"> - Changed the timing for recording the barcode ticket number. - If the Reset Command is received while writing onto the ICB, the Reset operation will be performed after the data has been written completely. - The ICB will always be checked for (not only in power-up). - The count of the removal and installation of the ICB will not be updated in case of the Reset. - In case of the communication retry after the wake-up, make sure to stop communicating for about 160ms after sending the EOT. - When the flag of the removal or installation of the ICB is on, the calculation flag will be checked every time the data is written onto the ICB as a measure against the problem where the cash box can be exchanged without being detected while the UBA is performing other operations. 6. Changed the software so that "Stacker Open" is reported even if a banknote is still at the entry just after being rejected. 			

Interface:	<ol style="list-style-type: none"> 1. Support the 24-digit barcode tickets. <ul style="list-style-type: none"> - Assigned Optional Function "DATA-1, Bit 3" to enable / disable 24-digit barcode tickets. <p>ON: The 24-digit barcode tickets as well as the ones which have been specified by the BAR CODE FUNCTION DATA will be accepted.</p> <p>OFF: Only barcode tickets which have been specified by the BAR CODE FUNCTION DATA will be accepted.</p> 2. Support the Barcode Ticket Reject Codes. <ul style="list-style-type: none"> - When a barcode ticket is inserted in the down directions, it will be rejected with the error code "9B". - Changed the Reject Code for the doubled (stacked) tickets error from the error code "91" into "98". 3. Support the ICB Enable/Disable Command. <ul style="list-style-type: none"> - During the initialization, the ICB features can be enabled/disabled with the ID-003 command.
Memo:	<ul style="list-style-type: none"> - Low security for all denominations.

Dip Switch Settings

#	Dip Switch		
1	OFF	5	ACCEPT
	ON	5	INHIBIT
2	OFF	10	ACCEPT
	ON	10	INHIBIT
3	OFF	20	ACCEPT
	ON	20	INHIBIT
4	OFF	50	ACCEPT
	ON	50	INHIBIT
5	OFF	100	ACCEPT
	ON	100	INHIBIT
6	OFF	Setting OFF	
	ON	Setting OFF	
7	OFF	Setting OFF	
	ON	Setting OFF	
8	OFF	Setting OFF	
	ON	Setting OFF	

ID-003 Data Setting specification

VERSION DATA

SW. Version	U(SUR)-10-SS ID003-03V176-16 16JUL08 21D1
Boot Version	B01/B02/B03

ESCROW DATA

Code	Denomination
61h	Reserved
62h	Reserved
63h	5
64h	10
65h	20
66h	50
67h	100
68h	Reserved
69h	Reserved

CURRENCY ASSIGN DATA

Code	Country	Denomination	Exp.
61h	00h	00h	00h
62h	00h	00h	00h
63h	69h	05h	00h
64h	69h	0Ah	00h
65h	69h	14h	00h
66h	69h	32h	00h
67h	69h	64h	00h
68h	00h	00h	00h

ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
1	Reserved	Reserved
2	5	Reserved
3	10	Reserved
4	20	Reserved
5	50	Reserved
6	100	Reserved
7	Reserved	Reserved

0: Enable 1: Disable (Default: **8100h**)

SECURITY DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
1	Reserved	Reserved
2	5	Reserved
3	10	Reserved
4	20	Reserved
5	50	Reserved
6	100	Reserved
7	Reserved	Reserved

0: Normal 1: Security Level high (Default: **0000h**)

DIRECTION DATA

DATA bit	Direction	Sample demonination:100
0	'A' Direction	
1	'B' Direction	
2	'C' Direction	
3	'D' Direction	
4	Not used	
5	Not used	
6	Not used	
7	Not used	

0: Not Inhibit 1: Inhibit (Default: **00h**)

OPTIONAL FUNCTION DATA

DATA bit	Data 1	Data 2
0	Not used	Not used
1	Power Recovery [01]	Not used
2	Retry Function [02]	Not used
3	24char bar ticket accept [03]	Not used
4	Not used	Not used
5	Nearly Full [05]	Not used
6	Not used	Not used
7	Not used	Not used

0: Disable 1: Enable (Default: **0000h**)

BAR CODE FUNCTION DATA

	Code	Function
Data 1	01h	Barcode type (interleaved 2 of 5)
Data 2	12h	Character length (18 char)

[01] POWER RECOVERY

Limited to the case where power up status is {POWER UP WITH BILL IN STACKER}

with power supply off while ACCEPTOR is in {STACKING} status, {VEND VALID} is outputted in case initializing is completed normally.

Since SETTING STATUS becomes DEFAULT 0000H by power supply off, it is necessary to conduct setting without fail after {RESET} command is transmitted.

[02] WITHOUT RETRY FUNCTION

Set effective (default) / invalidity of an automatic Retry function.

Since SETTING STATUS becomes DEFAULT 0000H by power supply off, it is necessary to

conduct setting without fail after [RESET] command is transmitted.

[03] 24-digit Barcode Ticket Acceptance

When "0" is set in the Optional Function DATA1 bit 3, barcode tickets which have been specified by the BAR CODE FUNCTION DATA will be accepted.

When "1" is set in the Optional Function DATA1 bit 3, 24-digit barcode tickets as well as the ones which have been specified by the BAR CODE FUNCTION DATA will be accepted.

This setting command is accepted during the initiale status only.

The last barcode ticket number registered in the ICB shows the first 18 digits only even if 24-digit barcode is accepted because the ICB supports only up to 20 digits.

[05] Nearly Full Function

The Nearly Full function will be enabled when "1" is set in the OPTIONAL FUNCTION DATA Bit 5.

The "NEARLY FULL" status will be sent when the quantity of the stored notes exceeds the specified amounts (Normal: 425 / Large: 825) as a response to the Status Request only after the "STACKED" status.

The "IDLING" status will be sent to the next Status Request.

Until the quantity of the stored notes is initialized, the "NEARLY FULL" status will be reported when the note is put in the cash box.

The quantity of the stored notes will be initialized when the cash box is removed while the power is on.

UBA Additional Commands/Responses

ICB Box Number Setting Request (Read out ICB BOX No. installed in ACCEPTOR)

Command Format (Controller -> Acceptor)

SYNC	LNG	CMD	CRC
------	-----	-----	-----

SYNC : [FCH]

LNG : [05H] (Total number of bytes from SYNC to CRC)

CMD : [8EH]

CRC : Check Code by CRC (2byte)

For details, refer to ID-003 Communication Specifications.

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD	DATA	CRC
------	-----	-----	------	-----

SYNC : [FCH]

LNG : [19H] (Total number of bytes from SYNC to CRC)

CMD : [8EH]

DATA : ICB BOX No. (ASCII CODE)

MAX 20Byte.

Code should be from 20H to 7EH.

If the number of characters are less than 20, be sure to fill the blank space with the space code (20H).

CRC : Check Code by CRC (2byte)

For details, refer to ID-003 Communication Specifications.

*Be sure to use this command in a wait state (IDLING or Disable STATUS), since the number is updated after initial operation (read out from ICB).

Nearly Full

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD	CRC
------	-----	-----	-----

SYNC : [FCH]

LNG : [05H] (Total number of bytes from SYNC to CRC)

CMD : [1CH]

CRC : Check Code by CRC (2byte)

For details, refer to ID-003 Communication Specifications.

ICB Enable/Disable Setting Command

Command Format (Controller -> Acceptor)

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SYNC	LNG	CMD1	CMD2	DATA	CRC
------	-----	------	------	------	-----

SYNC : [FCH]
 LNG : [07H]
 CMD1 : [B1H]
 CMD2 : [C0H]
 DATA : [00H]:ICB Enable
 :[01H]:ICB Disable
 CRC : Check Code by CRC (2byte)
 For details, refer to ID-003 Communication Specifications.

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD1	CMD2	DATA	CRC
------	-----	------	------	------	-----

SYNC : [FCH]
 LNG : [07H]
 CMD1 : [B1H]
 CMD2 : [C0H]
 DATA : [00H]:ICB Enable
 :[01H]:ICB Disable
 CRC : Check Code by CRC(2byte)
 For details, refer to ID-003 Communication Specifications.

ICB Setting Request

Command Format (Controller -> Acceptor)

SYNC	LNG	CMD1	CMD2	CRC
------	-----	------	------	-----

SYNC : [FCH]
 LNG : [06H]
 CMD1 : [B1H]
 CMD2 : [80H]
 CRC : Check Code by CRC(2byte)
 For details, refer to ID-003 Communication Specifications.

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD1	CMD2	DATA	CRC
------	-----	------	------	------	-----

SYNC : [FCH]
 LNG : [07H]
 CMD1 : [B1H]
 CMD2 : [80H]
 DATA : [00H]: ICB Enable Status
 :[01H]: ICB Disable Status
 CRC : Check Code by CRC(2byte)
 For details, refer to ID-003 Communication Specifications.