

Software Information Sheet



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General Information

Model Name:	UBA-10-SS			SW Req. No.	G08-079-01			
SW. Name:	UBA-10 (EST/EUR/SWE)-SS ID-003E			Date: (mm,dd,yyyy)	05.15.2008	Rev:	B2	
SW. Version:	V1.76-16			Note:	-			
Country (Code):	Estonia (EST) Euro (EUR) Sweden (SWE)			Guide:	Non			
Currency:	Kroon / Euro / Kronor			Check Sum:	E415			
Direction:	4Way			CRC (seed= 0000):	3F71			
Denomination: Years & MRI Ident # <small>MRI Bankers' Guide to foreign Currency 62ndth Edition</small>	EST				EUR			
	Denomi.	Printed	Issued	MRI#	Denomi.	Printed	Issued	MRI#
	10	'91 ~ '92	'92	EEK10.1	5	'02	-	EUR5.1
	10	'94	'97	EEK10.2A	10	'02	-	EUR10.1
	10	'06	---	EEK10.2B	20	'02	-	EUR20.1
	25	'91 ~ '92	'92	EEK25.1	50	'02	-	EUR50.1
	25	'02	'02	EEK25.2				
	50	'94	'94	EEK50.1				
	100	'91 ~ '92	'92	EEK100.1	SWE			
	100	'94	'94	EEK100.2	Denomi.	Printed	Issued	MRI#
	100	'99	'99	EEK100.3	20	-	'97	SEK20.2
	100	'07	---	---	20	-	-	-
	500	'91	'92	EEK500.1	50	-	'96	SEK50.1
	500	'94	'95	EEK500.2	50	-	'05	SEK50.2
500	'96	'97	EEK500.3	100	-	'01	SEK100.2	
500	'00	'00	EEK500.4	500	-	'01	SEK500.3	
Acceptance Rate:	No less than 98%							
ACCLOAD Program	NEW ACCLOAD V1.19							
UBA USB Tool Suite	UBA USB Tool Suite Version 1.06							
Barcode Ticket:	Accepts JCM specified barcode ticket.							
ICB	ICB feature is enabled or disabled with ICB Enable / Disable setting barcode ticket.							
EPROM:	8 Mbit, 100 nano-second data access, or faster. ST Part M27C801-100F1 or equivalent							
Modifications:	V1.50-14 -> V1.76-16							
Validation:	1. Added the 500 Krooni banknotes recognition.							
Operation:	1. 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. 2. 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. 3. 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. 4. 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"> Allocated the Function Code DATA1-bit3 to enable/disable the 24 digits barcode tickets acceptance. ON: 24-digit barcode tickets as well as the ones which have been specified by the BAR CODE FUNCTION DATA will be accepted. OFF: barcode tickets which have been specified by the BAR CODE FUNCTION DATA will be accepted. 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. 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". 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. Added the "Nearly Full" function.
Memo:	<ul style="list-style-type: none"> The ICB host simulator and the R/W Tool cannot support more than two currencies, so the country code of the Estonian banknotes will be "SWE"

Dip Switch Settings

#	Dip Switch			
		Estonia	EUR	SWE
1	OFF		5,10 ACCEPT	20,50 ACCEPT
	ON		5,10 INHIBIT	20,50 INHIBIT
2	OFF		20 ACCEPT	100 ACCEPT
	ON		20 INHIBIT	100 INHIBIT
3	OFF	500 ACCEPT	50 ACCEPT	500 ACCEPT
	ON	500 INHIBIT	50 INHIBIT	500 INHIBIT
4	OFF	10,25 ACCEPT		
	ON	10,25 INHIBIT		
5	OFF	50 ACCEPT		
	ON	50 INHIBIT		
6	OFF	100 ACCEPT		
	ON	100 INHIBIT		
7	OFF			50(*'96) ACCEPT
	ON			50(*'96) INHIBIT
8	OFF		Setting OFF	
	ON		Setting OFF	

ID-003 Data Setting specification

VERSION DATA

SW. Version	U(EST/EUR/SWE)-10-SS ID003EV176-16 24APR08 3F71
Boot Version	B01/B02/B03

ESCROW DATA(SWE / EST)

Code	Denomination
61h	SWE 500
62h	SWE 20
63h	SWE 50
64h	SWE 100
65h	EST 10
66h	EST 25
67h	EST 50
68h	EST 100
69h	EST 500

CURRENCY ASSIGN DATA(SWE / EST)

Code	Country	Denomination	Exp.
61h	05h	32h	01h
62h	05h	02h	01h
63h	05h	05h	01h
64h	05h	0Ah	01h
65h	24h	0Ah	00h
66h	24h	19h	00h
67h	24h	32h	00h
68h	24h	64h	00h
69h	24h	32h	01h

ESCROW DATA(EUR)

Code	Denomination
71h	Reserved
72h	5
73h	10
74h	20
75h	50
76h	Reserved
77h	Reserved
78h	Reserved

CURRENCY ASSIGN DATA(EUR)

Code	Country	Denomination	Exp.
71h	00h	00h	00h
72h	E0	05h	00h
73h	E0	0Ah	00h
74h	E0	14h	00h
75h	E0	32h	00h
76h	00h	00h	00h
77h	00h	00h	00h
78h	00h	00h	00h

ENABLE/DISABLE DATA

DATA bit	Data 1(SWE/EST)	Data 2(EST/EUR)
0	SWE 500	EST 500
1	SWE 20	5
2	SWE 50	10
3	SWE 100	20
4	EST 10	50
5	EST 25	Reserved
6	EST 50	Reserved
7	EST 100	Reserved

0: Enable 1: Disable (Default: **00E0h**)

SECURITY DATA

DATA bit	Data 1(SWE/EST)	Data 2(EST/EUR)
0	SWE 500	EST 500
1	SWE 20	5
2	SWE 50	10
3	SWE 100	20
4	EST 10	50
5	EST 25	Reserved
6	EST 50	Reserved
7	EST 100	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	Auto-Retry Operation [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] Auto-Retry Operation

To enable auto-retry operation, set 0 in the FUNCTION DATA1 bit 2 (default setting)
 To disable auto-retry operation, set 1 in the FUNCTION DATA1 bit 2
 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)

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.