

Software Information Sheet



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General Information

Model Name:	UBA-10/11-SS			SW. Req. No.	C18-0416-01	G18-229	
SW. Name:	UBA-10(MKD)-SS ID-003			Date: (mm,dd,yyyy)	06.20.2018	Rev:	A1
SW. Version:	V2.81-52			Note:	-		
Country (Code):	Macedonia(MKD)			Guide:	None		
Currency:	Denari			Check Sum:	95B5		
Direction:	4Way			CRC (seed= 0000):	4EBB		
SHA-1 (seed = 67452301EFCDAB8998BADCFE10325476C3D2E1F0)				C6AC52DE53084369B5EF7C3ED384A72A24BED3F6			
Denomination: Years & MRI Ident# MRI Bankers' Guide to Foreign Currency 90 th Edition	Denomi.	Printed	Issued	MRI#			
	10	'16	'18	MKD10.2			
	50	'16	'18	MKD50.2			
	100	'96, '00~	'96	MKD100.1			
	200	'16	'16	MKD200.1			
	500	'96	'96	MKD500.1			
	500	'03 ~	'03	MKD500.2			
	1000	'96	'96	MKD1000.1			
	1000	'03,'09	'03	MKD1000.2			
2000	'16	'16	MKD2000.1				
Acceptance Rate:	No less than 98%						
ACCLOAD Program:	NEW ACCLOAD for JCM Tool Suite Edition V1.07						
JCM Tool Suite	JCM Tool Suite Standard Edition V1.40				Update Pack: None		
Barcode Ticket:	Accepts JCM specified barcode tickets.						
ICB	ICB feature is enabled or disabled with ICB Enable / Disable setting barcode ticket or with ICB Enable / Disable Command.						
EPROM: (UBA11)	8 M bit, 100 nanosecond data access or faster. ST Part M27C801-100F1 or equivalent						
Modifications:	V2.80-52→ V2.81-52						
Validation:	1. Add new MKD10.2 and MKD50.2 2. Remove acceptance for MKD10.1 and MKD50.1 3. Add additional precompare operation to increase reliability of MKD100 and MKD200 recognition.						
Operation:							
Interface:							
Memo:	- Baud rate 38400bps speed during software download is not guaranteed.						

Dip Switch Settings

#	Dip Switch		
1	OFF	10	ACCEPT
	ON	10	INHIBIT
2	OFF	50	ACCEPT
	ON	50	INHIBIT
3	OFF	100	ACCEPT
	ON	100	INHIBIT
4	OFF	200	ACCEPT
	ON	200	INHIBIT
5	OFF	500	ACCEPT
	ON	500	INHIBIT
6	OFF	1000	ACCEPT
	ON	1000	INHIBIT
7	OFF	2000	ACCEPT
	ON	2000	INHIBIT
8	OFF	OFF	
	ON	Test Mode	

ID-003 Data Setting specification

VERSION DATA

SW. Version	U(MKD)-10-SS ID003-05V281-52 20JUN18 4EBB
Boot Version	B01/B02/B03

ESCROW DATA

Code	Denomination
61h	10
62h	Reserved
63h	50
64h	100
65h	200
66h	500
67h	1000
68h	2000

CURRENCY ASSIGN DATA

Code	Country	Denomination	Exp.
61h	73h	01h	01h
62h	00h	00h	00h
63h	73h	05h	01h
64h	73h	0Ah	01h
65h	73h	14h	01h
66h	73h	32h	01h
67h	73h	0Ah	02h
68h	73h	14h	02h

ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
0	10	Reserved
1	Reserved	Reserved
2	50	Reserved
3	100	Reserved
4	200	Reserved
5	500	Reserved
6	1000	Reserved
7	2000	Reserved

0: Enable 1: Disable (Default: 0200h)

SECURITY DATA

DATA bit	Data 1	Data 2
0	10	Reserved
1	Reserved	Reserved
2	50	Reserved
3	100	Reserved
4	200	Reserved
5	500	Reserved
6	1000	Reserved
7	2000	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 [02]	Not used
2	Auto-Retry Operation [04]	Not used
3	24char bar ticket accept [08]	Not used
4	Not used	Not used
5	Nearly Full [20]	Not used
6	Entrance sensor event [40]	Not used
7	Encryption [80]	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)
	FFh	Multi Barcode Ticket acceptance in the range of length 18 characters to 28 characters.

[02] 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.

[04] 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.

[08] 24-digit Barcode Ticket Acceptance

Assigned Optional Function "Data 1, bit 3" to enable / disable 24-digit barcode tickets.

- ① Set "0": only digit barcode tickets that have set bar code function data will be accepted (default setting)
- ② Set "1": both digit barcode tickets that have set bar code function data and 24-digit barcode tickets will be accepted.

This setting command is accepted during the initial status only.

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

[20] 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.

[40] Entrance Sensor Event

The "Entrance Sensor Event" will be enabled when "1" is set in the OPTIONAL FUNCTION DATA Bit 6. By follow description of function.

1. When the Entrance Sensor detects a note while the ACCEPTOR is in the DISABLE (INHIBIT) Status, the insertion of the note will be reported to the CONTROLLER in the Status Response from the ACCEPTOR.
2. This function will be included in the OPTIONAL FUNCTION. When the setting is enabled, a data byte [one byte] will follow the DISABLE (INHIBIT) Status of the ACCEPTOR, and the status of the Entrance Sensor (ON or OFF) will be reported to the CONTROLLER in the lower byte.
3. This setting will be cleared when the ACCEPTOR is powered off, or the Reset Command from the CONTROLLER is received.

For more details, please refer to another document, "ID-003 Entrance Sensor Status Report Function Specification.doc".

[80] Encryption

When the "1" is set in the OPTIONAL FUNCTION DATA Bit7 the ENCRYPTION will be enabled.

When the ENCRYPTION is enabled, the ESCROW and VEND VALID messages will be encrypted.

For more details, please refer to another document, "ID-003 Encryption Procedure".

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 is 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.

Entrance Sensor Event

Response Format (Controller -> Acceptor)

SYNC	LNG	SST	DATA	CRC
------	-----	-----	------	-----

SYNC : [FCH]

LNG : [06H]

SST : [1AH]

DATA : [00H] Entrance Sensor : OFF

: [01H] Entrance Sensor : ON

CRC :Check Code by CRC(2byte)