

# Software Information Sheet



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## General Information

<b>Model Name:</b>	EBA-30/34-SD3				<b>SW.Req. No.</b>	C20-0270-01	G20-157	
<b>SW. Name:</b>	EBA-30(EUR5)-SD3 ID-003				<b>Date: (mm,dd,yyyy)</b>	09.01.2020	<b>Rev:</b>	A1
<b>SW. Version:</b>	V5.39-28				<b>Note:</b>			
<b>Country (Code):</b>	European Union (EUR)				<b>Guide:</b>			
<b>Currency:</b>	Euro				<b>Check Sum:</b>	FCD8		
<b>Direction:</b>	4Way (A,B,C,D)				<b>CRC (seed= 0000):</b>	9914		
<b>Denomination:</b>	<b>Denomi.</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>	<b>Denomi.</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>
Years & MRI Ident 94 <sup>th</sup>	5	'02	'02	EUR5.1	50	'17	'17	EUR50.2
	5	'13	'13	EUR5.2	100	'19	'19	EUR100.2
	10	'02	'02	EUR10.1	200	'02	'02	EUR200.1
	10	'14	'14	EUR10.2	200	'19	'19	EUR200.2
	20	'02	'02	EUR20.1	500	'02	'02	EUR500.1
	20	'15	'15	EUR20.2				
	50	'02	'02	EUR50.1				
<b>Acceptance Rate:</b>	No less than 90%							
<b>EPROM:</b>	8 Mbit, 100 ns data access, or faster. ST Part M27C801-100F1 or equivalent							
<b>Modifications:</b>	<b>V5.37-28→ V5.39-33</b>							
Validation:	1. Removed acceptance for EUR100.1.							
Operation:	2. New dip switch settings for ES1 series <ul style="list-style-type: none"> <li>DIP-SW2-4 OFF: 5.1/10.1/20.1/50.1/200.1/500.1 ACCEPT</li> <li>DIP-SW2-4 ON: 5.1/10.1/20.1/50.1/200.1/500.1 INHIBIT</li> </ul>							
Interface:	-							
<b>Memo:</b>	- For best acceptance and security, it is recommended to use normal security setting and adjusted units.							

## Dip Switch Settings

#	Dip Switch 1		Dip Switch 2
1	OFF	Setting Off	Without SD3 operation
	ON	Setting Off	SD3 operation
2	OFF	5 ACCEPT	Disable optional key switch
	ON	5 INHIBIT	Enable optional key switch
3	OFF	10 ACCEPT	Setting Off
	ON	10 INHIBIT	Setting Off
4	OFF	20 ACCEPT	5.1, 10.1, 20.1, 50.1, 200.1, 500.1 ACCEPT
	ON	20 INHIBIT	5.1, 10.1, 20.1, 50.1, 200.1, 500.1 INHIBIT
5	OFF	50 ACCEPT	Without double paper payout detection
	ON	50 INHIBIT	With double paper payout detection
6	OFF	100 ACCEPT	Setting Off
	ON	100 INHIBIT	Setting Off
7	OFF	200 ACCEPT	Setting Off
	ON	200 INHIBIT	Setting Off
8	OFF	500 ACCEPT	Setting Off
	ON	500 INHIBIT	Setting Off

# ID-003 Data Setting specification

## VERSION DATA

SW. Version	E(EUR5)-30-SD3 ID003-05v539-33 01SEP20 9914
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## ESCROW DATA

Code	Denomination
61h	Reserved
<b>62h</b>	<b>5</b>
<b>63h</b>	<b>10</b>
<b>64h</b>	<b>20</b>
<b>65h</b>	<b>50</b>
<b>66h</b>	<b>100</b>
<b>67h</b>	<b>200</b>
<b>68h</b>	<b>500</b>

## CURRENCY ASSIGN DATA

Code	Country	Denomi	Exp.
61h	00h	00h	00h
<b>62h</b>	<b>E0h</b>	<b>05h</b>	<b>00h</b>
<b>63h</b>	<b>E0h</b>	<b>0Ah</b>	<b>00h</b>
<b>64h</b>	<b>E0h</b>	<b>14h</b>	<b>00h</b>
<b>65h</b>	<b>E0h</b>	<b>32h</b>	<b>00h</b>
<b>66h</b>	<b>E0h</b>	<b>0Ah</b>	<b>01h</b>
<b>67h</b>	<b>E0h</b>	<b>14h</b>	<b>01h</b>
<b>68h</b>	<b>E0h</b>	<b>32h</b>	<b>01h</b>

## ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
<b>1</b>	<b>5</b>	Reserved
<b>2</b>	<b>10</b>	Reserved
<b>3</b>	<b>20</b>	Reserved
<b>4</b>	<b>50</b>	Reserved
<b>5</b>	<b>100</b>	Reserved
<b>6</b>	<b>200</b>	Reserved
<b>7</b>	<b>500</b>	Reserved

0: Enable 1: Disable (Default: **01FFh**)

## SECURITY DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
1	Reserved	Reserved
2	Reserved	Reserved
3	Reserved	Reserved
4	Reserved	Reserved
5	Reserved	Reserved
6	Reserved	Reserved
7	Reserved	Reserved

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

## DIRECTION DATA

DATA bit	Direction	Sample: 10 EURO	
0	'A' Direction	A	B
1	'B' Direction		
2	'C' Direction		
3	'D' Direction		
4	Not used	C	D
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
<b>0</b>	<b>Hanging Function[01]</b>	Not use
<b>1</b>	<b>Power Recovery [02]</b>	Not use
2	Not use	Not use
3	Not use	<b>Enable standard security [08]</b>
4	Not use	Not use
5	Not use	Not use
6	Not use	Not use
<b>7</b>	<b>Encryption Function [80]</b>	Not use

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

**[01] Hanging Function**

Rejection of the bill is completed with the end of the bill kept remaining in the acceptor.  
(To prevent dropping of the bill)

**[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.

**[80] Encryption**

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

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

When banknotes are dispensed, "PAY OUT" and "PAY VALID" are encrypted. The host controller shall  
encrypt "PAY OUT" command.

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

**[08] Enable standard security**

This Function will be enabled by setting "1" in Optional Function "Data2 Bit 3".

When this function is enabled EBA will use the standard security features.

## Remarks

### (1) SECURITY DATA

This function is not enabled even if each denomination is set to “Security level high”.

### (2) Operation with SD3 stacker: Output timing of [VEND VALID]

When [STACK-1] or [STACK-2] is received, EBA-30-SD3 will send [VEND VALID] in the following timings:

- \* Output timing of [VEND VALID] upon receiving [STACK-1]  
EBA-30-SD3 will send [VEND VALID] after PB unit finishes its operation.
- \* Output timing of [VEND VALID] upon receiving [STACK-2]  
EBA-30-SD3 will send [VEND VALID] when a bill is stacked into the cash box.

### (3) Operation without SD3 stacker: Output timing of [VEND VALID]

EBA-30 will send [VEND VALID] at the timing of [STACK-1], regardless of receiving [STACK-1] or [STACK-2].

### (4) Power recovery

**Memory backup period for sec power outage is 5 seconds at minimum. For outage of more than 5 seconds, power recovery becomes impossible and the data in memory will be lost.**

### (5) The following “FAILURE” and “ERROR” status are added on the communication specification for ID-003 4 th edition.

#### \*FAILURE Status

FAILURE [0x49] + DATA

DATA	Description
0xa1	Stacking mechanism failure
0xb6	Wrong download file
0xc1	Centering mechanism failure
0xc2	The rollers for centering mechanism do not move up and down
0xc3	Communication error with the stacker board

#### \*ERROR Status

[0x4d] Key Unlocked

EBA-30-SD3 will send this command when the cash box key is unlocked.

EBA-30-SD3 will initialize itself when the cash box is put into place and the key is locked.

(The key switch is an optional part. EBA-30-SD3 does not send the error status if the key switch is disabled with dipswitch settings. Bill acceptor does not send this command in operation without SD3 stacker.)

[0x4e] Stacker unit separated form acceptor unit

EBA-30-SD3 will send this command when the stacker unit separated form acceptor unit .

EBA-30-SD3 will initialize itself when the stacker unit is put into place.

(EBA-30-SD3 does not send this command in operation without SD3 stacker)