

# Software Information Sheet



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## General Information

<b>Model Name:</b>	EBA-30/34-SD3				<b>SW. Req. No.</b>	C18-0635-01		G18-353	
<b>SW. Name:</b>	EBA-30(CZE-X)-SD3 ID-003				<b>Date:</b> (mm,dd,yyyy)	09.24.2018		<b>Rev:</b>	A2
<b>SW. Version:</b>	V5.11-27				<b>Note:</b>	For Apex, Synot			
<b>Country (Code):</b>	Czech Republic (CZE)				<b>Guide:</b>				
<b>Currency:</b>	Korun				<b>Check Sum:</b>	674D			
<b>Direction:</b>	4Way				<b>CRC (seed= 0000):</b>	54EC			
<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 90 <sup>th</sup>	100	‘95		CZK100.1B	1000	‘96	‘93	CZK1000.1B	
	100	‘97		CZK100.1C	1000	‘08	‘08	CZK1000.1C	
	100			CZK100.3	2000	‘96		CZK2000.1A	
	200	‘96		CZK200.1B	2000	‘99		CZK2000.1B	
	200	‘98		CZK200.1C	2000	‘07		CZK2000.1C	
	200			CZK200.2	5000	‘99	‘99	CZK5000.1B	
	500	‘95		CZK500.1B	5000	‘09		CZK5000.1C	
	500	‘97		CZK500.1C					
	500	‘09	‘09	CZK500.1D					
<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>V5.10-07 → V5.11-27</b>								
Validation:	1. Added acceptance of CZK100.3 and CZK200.2.								
Operation:	1. Added sensor aging test function. 2. Modified sensor aging test function (level2). 3. Added new sensor aging test function (3h). 4. Acceptor will reject banknotes when in [PAUSE] status for longer than 10s. 5. Added cleaning card support (validation sensor check). 6. Fixed the auto retry when bill is pulled out after first or second retry. 7. Acceptor will stay in [PAUSE] when in SD3 mode and a new banknote is inserted after the validated note has passed the head exit sensor. 8. Changed transport procedure to prevent wrong [CHEATED] message.								
Interface:	1. Fixed an issue with [POWERUP WITH BILL IN STACKER] on some units when using SD3 stacker. 2. Fixed an issue that EBA-3x doesn’t report a reject after [ACCEPTING]. 3. Fixed an issue of EBA-3x not reporting [VEND VALID]. 4. Fixed an issue with [POWERUP WITH BILL IN ACCEPTOR].								
<b>Memo:</b>	- The 5,000 Korun notes acceptance will be disabled automatically when the SD3 operation is selected as their length is out of specification for the operation with the stacker. - The length of the 2,000 Korun notes is also out of specification for the operation with the stacker, so JCM will not be responsible for any damages caused by them during the SD3 operation.								

## Dip Switch Settings

#	Dip Switch 1		Dip Switch 2
1	OFF	Setting Off	Without SD3 operation
	ON	Setting Off	SD3 operation (Not accept 5000 Korun)
2	OFF	Setting Off	Disable optional key switch
	ON	Setting Off	Enable optional key switch
3	OFF	100 ACCEPT	Setting Off
	ON	100 INHIBIT	Setting Off
4	OFF	200 ACCEPT	Setting Off
	ON	200 INHIBIT	Setting Off
5	OFF	500 ACCEPT	Without double paper payout detection
	ON	500 INHIBIT	With double paper payout detection
6	OFF	1000 ACCEPT	Setting Off
	ON	1000 INHIBIT	Setting Off
7	OFF	2000 ACCEPT	Setting Off
	ON	2000 INHIBIT	Setting Off
8	OFF	5000 ACCEPT	Setting Off
	ON	5000 INHIBIT	Setting Off

# ID-003 Data Setting specification

## VERSION DATA

SW. Version	E(CZE-X)-30-SD3 ID003-05v511-27 24SEP18 54EC
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## ESCROW DATA

Code	Denomination
61h	Reserved
62h	Reserved
63h	Reserved
<b>64h</b>	<b>100</b>
<b>65h</b>	<b>200</b>
<b>66h</b>	<b>500</b>
<b>67h</b>	<b>1000</b>
<b>68h</b>	<b>2000</b>
<b>69h</b>	<b>5000</b>

## CURRENCY ASSIGN DATA

Code	Country	Denomi	Exp.
61h	00h	00h	00h
62h	00h	00h	00h
63h	00h	00h	00h
<b>64h</b>	<b>2Ch</b>	<b>0Ah</b>	<b>01h</b>
<b>65h</b>	<b>2Ch</b>	<b>14h</b>	<b>01h</b>
<b>66h</b>	<b>2Ch</b>	<b>32h</b>	<b>01h</b>
<b>67h</b>	<b>2Ch</b>	<b>64h</b>	<b>01h</b>
<b>68h</b>	<b>2Ch</b>	<b>C8h</b>	<b>01h</b>
<b>69h</b>	<b>2Ch</b>	<b>32h</b>	<b>02h</b>

## ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
0	Reserved	<b>5000</b>
1	Reserved	Reserved
2	Reserved	Reserved
<b>3</b>	<b>100</b>	Reserved
<b>4</b>	<b>200</b>	Reserved
<b>5</b>	<b>500</b>	Reserved
<b>6</b>	<b>1000</b>	Reserved
<b>7</b>	<b>2000</b>	Reserved



0: Enable 1: Disable (Default: **07FEh**)

## SECURITY DATA

DATA bit	Data 1	Data 2
0	Reserved	<b>5000</b>
1	Reserved	Reserved
2	Reserved	Reserved
<b>3</b>	<b>100</b>	Reserved
<b>4</b>	<b>200</b>	Reserved
<b>5</b>	<b>500</b>	Reserved
<b>6</b>	<b>1000</b>	Reserved
<b>7</b>	<b>2000</b>	Reserved

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

## DIRECTION DATA

DATA bit	Direction	Sample: 100 Korun	
0	'A' Direction	A	
1	'B' Direction		
2	'C' Direction		
3	'D' Direction		
4	Not used	C	
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	Hanging Function [01]	Not used
1	Power Recovery [02]	Not used
2	Not used	Not used
3	Not used	Not used
4	Not used	Not used
5	Not used	Not used
6	Not used	Not used
7	Encryption [80]	Not used

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".

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## 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-3x-SD3 will send [VEND VALID] in the following timings:

- \* Output timing of [VEND VALID] upon receiving [STACK-1]  
EBA-3x-SD3 will send [VEND VALID] after PB unit finishes its operation.
- \* Output timing of [VEND VALID] upon receiving [STACK-2]  
EBA-3x-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-3x 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-3x-SD3 will send this command when the cash box key is unlocked.

EBA-3x-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-3x-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-3x-SD3 will send this command when the stacker unit separated form acceptor unit.

EBA-3x-SD3 will initialize itself when the stacker unit is put into place.

(EBA-3x-SD3 does not send this command in operation without SD3 stacker)