Software Information Sheet

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General Information

Model Name:	iPRO-100-SH2-RC			**SER No.**	C19-0307-01	G19-173	
SW. Name:	iPRO-100(RUS)-SH2-RC ID-003			**Date:** (mm,dd,yyyy)	07.18.2019	**Rev:**	A1
SW. Version:	**V3.05-38**			**Note:**	-		
Country (Code):	Russia (RUS)			**Guide:**	None		
Currency:	Rubles			**CRC (seed= 0000):**	2BB1		
Direction:	4Way			**CRC32:**	154449C7		

Denomination:
MRI Bankers' Guide to Foreign Currency 93rd Edition

Banknote RUB10.1, RUB10.2 referent from MRI 80th

Denomi.	Printed	Issued	MRI#	Denomi.	Printed	Issued	MRI#
10	'97	'04	RUB10.1	500	'97	'11	RUB500.3
10	'97	'04	RUB10.2	1000	'97	'01	RUB1,000.1
50	'97	'98	RUB50.1	1000	'97	'04	RUB1,000.2
50	'97	'04	RUB50.2	1000	'97	'10	RUB1,000.3
100	'97	'98	RUB100.1	2000	'17	'18	RUB2.000.1
100	'97	'04	RUB100.2	5000	'97	'06	RUB5,000.1
200	'17	'18	RUB200.1	5000	'97	'11	RUB5,000.2
500	'97	'98	RUB500.1	-	-	-	-
500	'97	'04	RUB500.2	-	-	-	-

Acceptance Rate:	No less than 98%		
JCM Tool Suite	JCM Tool Suite	V1.44.0.1	**Update Pack:** Non
Barcode Ticket:	Accepts JCM specified barcode tickets.		
ICB	---		
Modifications:	**V3.00-37 ➔ V3.05-38**		
Validation:	1. Added recycle support for RUB200.1		
Operation:	1. Fixed Reset command process after Jam occurred during payout.		
Interface:	-		
Recycler:	-		
Memo:	- Baud Rate 38400bps speed during software download is not guaranteed. - The setting of recyclable denomination using dipswitch on the Recycler is possible only at power-up of the test mode. In the ID-003 comm. mode, the setting of recyclable denomination with the Recycler dipswitch is not supported. - This software works with the Boot program "B04", "B05" or greater. (Does not work with the Boot programs "B01", "B02" and "B03" - When using "ID-003 Authentication Code" feature, the Authentication Key Tool Version 1.00 should be used.		

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 / 5000	ACCEPT
	ON	2000 / 5000	INHIBIT
8	OFF	OFF	
	ON	Test Mode	

ID-003 Data Setting specification

VERSION DATA

SW. Version	U(RUS)100-SH2-RC ID003-05V305-38 18JUL19 2BB1
Boot Version	B04 / B05

ESCROW DATA

Code	Denomination
61h	**200**
62h	**2000**
63h	**10**
64h	**50**
65h	**100**
66h	**500**
67h	**1000**
68h	**5000**

CURRENCY ASSIGN DATA

Code	Country	Denomination	Exp.
61h	**27h**	**14h**	**01h**
62h	**27h**	**14h**	**02h**
63h	**27h**	**01h**	**01h**
64h	**27h**	**05h**	**01h**
65h	**27h**	**0Ah**	**01h**
66h	**27h**	**32h**	**01h**
67h	**27h**	**64h**	**01h**
68h	**27h**	**32h**	**02h**

ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
0	**200**	Reserved
1	**2000**	Reserved
2	**10**	Reserved
3	**50**	Reserved
4	**100**	Reserved
5	**500**	Reserved
6	**1000**	Reserved
7	**5000**	Reserved

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

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 demonination:100
0	'A' Direction	
1	'B' Direction	
2	'C' Direction	A ← Front 100 → B (FA) (FB)
3	'D' Direction	
4	Not used	
5	Not used	D ← Back 100 → C (BB) (BA)
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	CHANGE PAY VALID TIMING [01]
1	Power Recovery [02]	Enable dispensing spray type [02]
2	Not used	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.

< Data 1>

[02] POWER RECOVERY

If power supply goes off when Acceptor is in [STACKING] and if the power up status is [POWER UP WITH BILL IN STACKER], Acceptor sends [VEND VALID] after initialization is completed normally.
SETTING STATUS becomes DEFAULT 0000H after power off, it is necessary for the host controller to make setting after Acceptor sends [RESET].

[08] 24-digit Barcode Ticket Acceptance

Assigned Optional Function "Data 1, bit 3" to enable / disable 24-digit barcode tickets.
(1) Set "0": only 18-digit barcode tickets will be accepted (default setting)
(2) Set "1": both 18-digit 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 18 digits only even if 24-digit barcode 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 remaining quantity to full notes becomes equal to or goes below 10 notes as a response to the Status Request only after the “STACKED” status.
The “IDLING” status will be sent to the next Status Request.

[40] Entrance Sensor Event

The "Entrance Sensor Event" will be enabled when “1” is set in the OPTIONAL FUNCTION "Data1 Bit 6".

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.
4. UBA will also send Idle [11h] + 1 byte showing whether any of the sensors between entrance sensor and escrow position are ON.

For more details, please refer to “ID-003 Function to Report the Status of the Entrance Sensor in the DISABLE Status”.

[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 “ID-003 Encryption Procedure”.

< Data 2>

[01] CHANGE PAY VALID TIMING

This function will be enabled by setting “1” in the OPTIONAL FUNCTION "Data2 Bit0".
Also, the timing for sending the PAY VALID Status during the paying out of the note can be changed by enabling/disabling this function.

- Set “0”: The PAY VALID will be sent when the note is removed after it has been transported to the position where the note can be removed.
- Set “1”: The PAY VALID will be sent after the note is transported to the position where it can be removed (without the dispensed note being removed)

[02] Enable dispensing spray type

This function will be enabled by setting “1” in the OPTIONAL FUNCTION "Data2 Bit1".

- Set “0”: Hang bill note at acceptor part during Pay Stay status.
- Set “1”: Will not hang bill note at acceptor part when Pay Stay status.
- When pay out bill note payed out bill note hanging to only entrance sensor, acceptor sends Pay Valid as movement completed.

This setting command is accepted during the initial status only.

ID-003 Recycler Data Setting specification

RECYCLER SOFTWARE VERSION

SW. Version	0200-44-09 03AUG18
Recycler Unit ID	Recycler 【20h】

RECYCLE BOX NUMBER

Number	Code	Recycle Box
1	01h	Upper Recycle Box
2	02h	Lower Recycle Box

RECYCLE DENOMINATION

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

0: None Recycle 1: Recycle (Default: **0000h**)

Recycler Dip Switch Settings (Test Mode)

	Dip Switch No.							
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Denomi	**Recycle Unit No.1**				**Recycle Unit No.2**			
200 Ruble	**ON**	**OFF**	**OFF**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**
10 Ruble	**ON**	**ON**	**OFF**	**OFF**	**ON**	**ON**	**OFF**	**OFF**
50 Ruble	**OFF**	**OFF**	**ON**	**OFF**	**OFF**	**OFF**	**ON**	**OFF**
100 Ruble	**ON**	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**	**OFF**
500 Ruble	**OFF**	**ON**	**ON**	**OFF**	**OFF**	**ON**	**ON**	**OFF**

Recycle Unit Bill Guide Setting

	Length	**Width**
10 Ruble	**Type6 Length Guide 152(Black)**	**Type3 Width Guide 67(Red)**
50 Ruble	**Type6 Lenght Guide 152(Black)**	**Type3 Width Guide 67(Red)**
100 Ruble	**Type6 Lenght Guide 152(Black)**	**Type3 Width Guide 67(Red)**
200 Ruble	**Type6 Lenght Guide 152(Black)**	**Type3 Width Guide 67(Red)**
500 Ruble	**Type6 Lenght Guide 152(Black)**	**Type3 Width Guide 67(Red)**