

# Software Information Sheet



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## General Information

<b>Model Name:</b>	Gen5	<b>SW. Req. No.</b>	GMKII-968		
<b>OEM:</b>	Generic	<b>Build Date:</b>	06/29/2018	<b>Rev:</b>	C1
<b>Jurisdiction:</b>	Europe (EUR)	<b>Code Base:</b>	CB2.21B		
<b>Protocol:</b>	RS-232 (TCL)	<b>SW Version/File:</b>	5REURGE25.dfu 5REURGE25_9600.dfu	<b>Rev:</b>	0
<b>Baud Rate:</b>	5REURGE25.dfu – Dip Switch Configurable (38400 default) 5REURGE24_9600.dfu – 9600	<b>CRC32 (seed= 0x00000000):</b>	5REURGE25.dfu: 0x0AFD0C00 5REURGE25_9600.dfu: 0x9FC73DA9		
<b>SLF FILE(s):</b>	SLF-GEN-EUR-007.slf	<b>FONT FILE(s):</b>	FONT-GEN-EUR-003.bin		
<b>Modifications:</b>	<p><b>(5REURGE24 → 5REURGE25) 06/2018</b></p> <ul style="list-style-type: none"><li>Improved DFU downloading to always reset after a file has been downloaded and saved in flash.</li><li>Modified to remove printer currency wording generation and currency formatting.</li></ul> <p><b>(5REURGE23 → 5REURGE24) 04/2018</b></p> <ul style="list-style-type: none"><li>Improved Journal mode printing of bold and proportional characters.</li><li>Improved font processing.</li><li>Improved logging.</li><li>Improved printer template storage handling.</li><li>Improved support for printing the pipe " " character.</li><li>Improved boot-up process.</li><li>Modified jam detection during form feed.</li><li>Improved paper detection.</li><li>Modified voltage error reporting.</li><li>Added handling for maximum paper length of 156 mm.</li><li>Added graphic support.</li><li>Added graphic rotation support.</li><li>Improved graphic printing at 90 and 270 degrees.</li><li>Improved font spacing.</li></ul> <p><b>(5REURGE22 → 5REURGE23) 12/2016</b></p> <ul style="list-style-type: none"><li>Modified the DIP switch configuration to use a 9-digit Gen2U formatted version string alias.</li></ul> <p><b>(5REURGE21 → 5REURGE22) 12/2016</b></p> <ul style="list-style-type: none"><li>Clear a printer jam when the door is opened, even when paper has not yet been removed (for consistency with Gen2U).</li><li>Wrap the worded dollar amount to the next line if the amount is too large to fit on a single line.</li><li>Added the wording “*** NO CASH VALUE ***” to the worded dollar amount if the ticket title is “PLAYABLE ONLY”, “CASHOUT RECEIPT”, OR “JACKPOT RECEIPT”.</li><li>Added the wording “*** NO CASH VALUE ***” to the worded dollar amount if the template ID is 8, A, or D.</li><li>Modified so that if the expiration date is “N/A” or “0 days”, it will display “Never Expires” for templates 9, A, C, and D.</li></ul>				

	<ul style="list-style-type: none"> <li>Added templates C and D.</li> <li>Improved printing of custom character spacing in JNL mode.</li> <li>Improved paper index mark detection.</li> <li>Improved power monitoring during pre-calibration.</li> <li>Improved DIP switch reading.</li> <li>Modified to reset the printer when the door is open, the tray not pulled, and the feed button held pressed for several seconds.</li> <li>Modified so that a jam status can be cleared by opening the door.</li> <li>Updated USB string descriptors.</li> </ul> <p><b>(5REURGE20 → 5REURGE21) 09/2016</b></p> <ul style="list-style-type: none"> <li>Improved template storage routine after power recovery.</li> </ul> <p><b>(GUREURGE2 → 5REURGE20) 08/2016</b></p> <ul style="list-style-type: none"> <li>Initial development for GEN5.</li> </ul>
<b>Supersedes:</b>	<b>5REURGE20, 5REURGE21, 5REURGE22, 5REURGE23</b>
<b>Memo:</b>	

## Firmware Features (TCL – Generic)

<b>Additional Customizations for all Generic firmware</b>	
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## Firmware Features (TCL)

Layout	International		Font IDs	1,2,3,4,5,7,8,9
Template Set	0,1,2,3,4,5,6,7,8,9,A,B,C,D		Character set Additions / Substitutions	No character additions/substitutions
Date	Input: MM/DD/YYYY Output: DD/MM/YYYY			
Currency	Input: \$XX,XXX,XXX.XX Output: €XX,XXX,XXX.XX (Only change currency symbol)			
Currency Wording	Wording: Generated from print command. DOLLAR(S) → EURO(S)			
Expiration	Input	Output		
	<null>	<print nothing>		
	N/A	Never Expires		
	... No Expiry ... (Case insensitive)	Never Expires		
	0 day(s)	Never Expires		
	1 day(s)	Void after 1 day		
	... XX day(s) (XX > 1)	Void after XX days		
	MM/DD/YYYY	Void after DD/MM/YYYY		
Additional Conversion	• For templates 9 and D, “VOUCHER” ticket title will be replaced by “TICKET” case sensitive.			
Additional Customizations	• Wrap the worded dollar amount to the next line if the amount is too large to fit on a single line. • Added the wording “*** NO CASH VALUE ***” to the worded dollar amount if the ticket title is or contain in any form “PLAYABLE ONLY”, “CASHOUT RECEIPT” OR “JACKPOT RECEIPT” • Added the wording “*** NO CASH VALUE ***” to the worded dollar amount if the template ID is 8, A, or D.			

## DIP Switch Mode Settings – 5RXXXXXXX.dfu

#	Dip Switch			
1,2,3	SW1	SW2	SW3	Baud Rate Mode
	ON	ON	OFF	9600 Baud
	ON	OFF	ON	19200 Baud
	OFF	ON	OFF	38400 Baud (default)
	OFF	ON	ON	57600 Baud
	OFF	OFF	OFF	115200 Baud
	OFF	OFF	ON	9600 Baud (GURXXX5XX version string)
	ON	OFF	OFF	38400 Baud (GURXXX5XX version string)
	ON	ON	ON	Reserved
4	OFF			Xon/Xoff Handshaking
	ON			RTS Handshaking
5	OFF			Reserved
	ON			Reserved
6	OFF			Reserved
	ON			Reserved

## DIP Switch Mode Settings – 5RXXXXXXX\_9600.dfu

#	Dip Switch	
1	OFF	Reserved
	ON	Reserved
2	OFF	Reserved
	ON	Reserved
3	OFF	Reserved
	ON	Reserved
4	OFF	Xon/Xoff Handshaking
	ON	RTS Handshaking
5	OFF	Reserved
	ON	Reserved
6	OFF	Reserved
	ON	Reserved

# Embedded Templates

## Template 0

<b>Sample Print Command</b>	^P 0 1 00-0000-0000-5974-9719 YOUR ESTABLISHMENT YOUR LOCATION ~143 ~134 ~142 ~132 ~153 ~148 CITY/STATE/ZIP CASHOUT TICKET VALIDATION 00-0000-0000-5974-9719 10/28/2006 02:03:07 TICKET #0001 NINE MILLION NINE HUNDRED NINETY ONE THOUSAND EIGHTY FIVE DOLLARS AND FIVE CENTS \$9,991,085.05   30 days Machine# 12345 0000000000059749719 ^
<b>Sample Image</b>	

## Template 1

<b>Sample Print Command</b>	^P 1 1 00-0000-0000-5974-9719 YOUR ESTABLISHMENT YOUR LOCATION CITY/STATE/ZIP CASHOUT TICKET VALIDATION 00-0000-0000-5974-9719 09/27/2006 02:03:07 TICKET #0001 NINE MILLION NINE HUNDRED NINETY ONE THOUSAND EIGHTY FIVE DOLLARS AND NO CENTS \$99,991,085.00   30 days MACHINE#12345678 0000000000059749719 ^
<b>Sample Image</b>	

## Template 2

<b>Sample Print Command</b>	^P 2 1 00-0000-0000-5974-9719 YOUR ESTABLISHMENT YOUR LOCATION CITY/STATE/ZIP CASHOUT TICKET VALIDATION 00-0000-0000-5974- 9719 09/27/2006 02:03:07 TICKET #0001 NINE MILLION NINE HUNDRED NINETY ONE THOUSAND EIGHTY FIVE DOLLARS AND NO CENTS \$99,991,085.00   30 days MACHINE#12345678 000000000059749719 ^
<b>Sample Image</b>	

## Template 3

<b>Sample Print Command</b>	^P 3 1 YOUR ESTABLISHMENT YOUR LOCATION CITY / STATE / ZIP   \$25.00 TWENTY FIVE DOLLARS AND ZERO CENTS TWENTY FIVE DOLLARS AND ZERO CENTS 12/28/2008 00:02:58 TICKET # 0014  00-0000-0000-7640-5080  03/20/2009 MACHINE# 0 000000000076405080 ^
<b>Sample Image</b>	

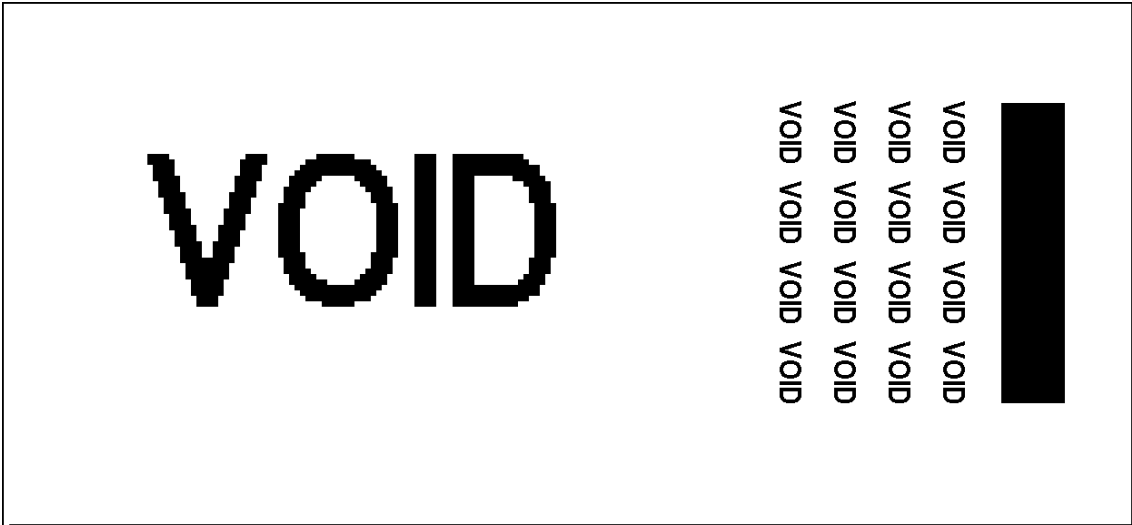
## Template 4

<b>Sample Print Command</b>	^P 4 1 00-0000-0000-7640-5080 YOUR ESTABLISHMENT YOUR LOCATION CITY / STATE / ZIP  \$25.00 TWENTY FIVE DOLLARS AND ZERO CENTS TWENTY FIVE DOLLARS AND ZERO CENTS 12/28/2008 00:02:58 TICKET # 0014  00-0000-0000-7640-5080  03/20/2009 MACHINE# 0 000000000076405080 ^
<b>Sample Image</b>	

## Template 5

<b>Sample Print Command</b>	^P 5 1 00-0000-0000-3422-7976 YOUR ESTABLISHMENT YOUR LOCATION CITY / STATE / ZIP \$99999999.00 TWENTY FIVE DOLLARS AND NO CENTS  08/08/2008 00:03:08 TICKET # 0015  00-0000-0000-3422-7976  1 day MACHINE# 0 000000000034227976 ^
<b>Sample Image</b>	

## Template 6

Sample Print Command	^P 6 1      ^
Sample Image	

## Template 7

Sample Print Command	^P 7 1 00-0000-0000-3754-4486 YOUR ESTABLISHMENT YOUR LOCATION CITY / STATE / ZIP  00-0000-0000-3754-4486 12/29/2006 00:03:25 TICKET # 0017 TWENTY FIVE DOLLARS AND NO CENTS   \$25.00  30 days MACHINE# 0 000000000037544486 ^
Sample Image	

## Template 8

<b>Sample Print Command</b>	^P 8 1 00-0000-0000-8920-2741 YOUR ESTABLISHMENT YOUR LOCATION CITY / STATE / ZIP 9999999.00 TWENTY FIVE DOLLARS AND NO CENTS TWENTY FIVE DOLLARS AND NO CENTS 12/28/2008 00:03:35 TICKET # 0018 00-0000-0000-8920-2741 30 days MACHINE# 0 000000000089202741 ^
<b>Sample Image</b>	

## Template 9

<b>Sample Print Command</b>	^P 9 1 00-0000-0000-5366-8153 YOUR ESTABLISHMENT YOUR LOCATION CITY/STATE/ZIP PLAYABLE ONLY VALIDATION 00-0000-0000-5366-8153 10/23/2007 08:27:36 TICKET # 0007 TEN DOLLARS AND NO CENTS 10.00 Ticket Void after 11/30/2010  MACHINE# 12345 0000000000053668153 ^
<b>Sample Image</b>	



## Template A

Sample Print Command	^P A 1 00-0000-0000-8920-2741 Your Establishment YOUR LOCATION CITY / STATE / ZIP CASHOUT RECEIPT \$25.00 TWENTY FIVE DOLLARS AND NO CENTS 28/08/2008 00:03:35 TICKET # 0018 VALIDATION 00-0000-0000-8920-2741 N/A MACHINE# 12345-123 0000000000089202741 ^
Sample Image	

## Template B

Sample Print Command	^P B 1  VOID ^
Sample Image	

## Template C

<b>Sample Print Command</b>	^P C 1 00-0000-0000-5366-8153 YOUR ESTABLISHMENT YOUR LOCATION CITY/STATE/ZIP JACKPOT RECEIPT VALIDATION 00-0000-0000-5366-8153 11/29/2007 08:27:36 TICKET # 0005 TEN DOLLARS AND NO CENTS  \$10.00 Ticket Void after 08/08/2008 Asset# 12345 000000000053668153 F723-13F5-2751-E731-5B56-49B7-0895-7CCD F72313F52751E7315B5649B708957CCD&001553049347404912&12395&777&10&05/24/2005 T01:08:18.000-07:00 ^
<b>Sample Image</b>	

## Template D

<b>Sample Print Command</b>	^P D 1 00-0000-0000-8920-2741 Your Establishment YOUR LOCATION CITY / STATE / ZIP CASHOUT TICKET \$25.00 TWENTY FIVE DOLLARS AND NO CENTS 08/08/2008 00:03:35 TICKET # 0018 VALIDATION 00-0000-0000-8920-2741 Voucher Void after 08/06/2008 MACHINE# 12345-123 000000000089202741 F723-13F5-2751-E731-5B56-49B7-0895-7CCD F72313F52751E7315B5649B708957CCD&000000000089202741&12395&777&10&05/24/2005 T01:08:18.000-07:00 ^
<b>Sample Image</b>	