

# Godex ZX1000i Applicator interface (GPIO module)

PIN NO.	FUNCTION	ТҮРЕ
1	GROUND	GROUND
2	+5V, MAX. 500mA <u>OR</u> +24V, MAX. 1.5A	POWER (OUT)*
3	START PRINT	INPUT SIGNAL
4	FEED LABEL	INPUT SIGNAL
5	PAUSE	INPUT SIGNAL
6	REPRINT	INPUT SIGNAL
7	UNASSIGNED	N.A.
8	UNASSIGNED	N.A.
9	UNASSIGNED	N.A.
10	SERVICE REQUIRED	OUTPUT SIGNAL
11	END PRINT	OUTPUT SIGNAL
12	OUT OF MEDIA	OUTPUT SIGNAL
13	OUT OF RIBBON	OUTPUT SIGNAL
14	DATA READY	OUTPUT SIGNAL
15	UNASSIGNED	N.A.

#### )\* POWER OUTPUT CONFIGURATION (PIN 2):

<u>+5V, MAX. 500mA</u> = APPLICATOR BOARD <u>J4</u> PINS CONNECTED, <u>J5 PIN 1+2</u> CONNECTED, <u>J6 PIN</u> <u>1+2</u> CONNECTED

<u>+24v, MAX. 1.5A</u> = APPLICATOR BOARD <u>J4</u> PINS CONNECTED, <u>J5 PIN 2+3</u> CONNECTED, <u>J6 PIN 2+3</u> CONNECTED

After correctly setting up the hardware you must send the following COMMAND:

^XSET,APPLICATOR,0,1

<u>Pictures:</u> please see page 2 of this document for applicator boards in both 5V and 24V configuration

1/6



# Configuration of applicator interface board for ZX1000

J4.....close

# 5 VOLT CONFIGURATION AG2000-ZX

J5.....1-2.....internal 5 V J6.....1-2......5 V !!SEND COMMAND ^XSET, APPLICATOR, 0, 0 TO THE PRINTER
AFTER INSTALLATION!!





A. The two pins on J4 must be connected.

B. Pin 2 and 3 on J5 must be connected.

C. Pin 2 and 3 on J6 must be connected.

#### 24VOLT CONFIGURATION

 !!SEND COMMAND

 ^XSET, APPLICATOR, 0, 1

 AFTER INSTALLATION!!

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#### GPIO module (Applicator interface) functions ZX1000i printer FW.

	PIN NO.	FUNTION	TYPE
Printer FW version: V2.Y2K	1	GROUND	GROUND
Applicator mode: Zebra Mode (1-4)	2	+5V, MAX. 500mA OR +24V, MAX. 1.5A	POWER (OUT)*
	3	START PRINT	INPUT SIGNAL
	4	FEED LABEL	INPUT SIGNAL
	5	PAUSE	INPUT SIGNAL
	6	REPRINT	INPUT SIGNAL
	7	UNASSIGNED	N.A.
	8	UNASSIGNED	N.A.
	9	UNASSIGNED	N.A.
	10	SERVICE REQUIRED	OUTPUT SIGNAL
	11	END PRINT	OUTPUT SIGNAL
	12	OUT OF MEDIA	OUTPUT SIGNAL
	13	OUT OF RIBBON	OUTPUT SIGNAL
	14	DATA READY	OUTPUT SIGNAL
	15	UNASSIGNED	N.A.

#### Start print (PIN3):

Start print functionality has 4 Start modes, which can be selected by appropriate command:

- 1. Level mode (^XSET,APPSTARTMODE,0) Labels are being printed until PIN3 is L
- 2. Pulse mode (^XSET,APPSTARTMODE,1) 1 Label is printed only on PIN3 transition from H->L
- 3. Pulse mode (^XSET,APPSTARTMODE,2) 1 Label is printed only on PIN3 transition from L->H
- 4. Pulse mode (^XSET,APPSTARTMODE,3) 1 Label is printed independent of the PIN3 transition direction, that means 1 label is printed both, on H->L and L->H.

## Feed Label (Slew label) (PIN4):

Feed function is working independently of whether there is a printjob in printers buffer or not, H->L transitions are treated as Feed trigger. See diagrams below:



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# Pause (PIN5):

To enter Pause Mode the signal Level on PIN5 should be kept L at least 200 ms. (PIN5 H->L + >200 ms L) To exit Pause mode, the signal Level on PIN5 should be kept L at least 200 ms. (PIN5 H->L + >200 ms L). It is possible to enter Pause mode independently of whether there is printjob in buffer or not.



## Clear printers buffer (delete all printjobs):

In pause mode, when Feed signal is kept L for more than 3 secs, printer buffer is cleared (all printjobs in the printer are deleted), same as holding the front Feed button.



# Reprint (PIN6):

Reprint last printed label function is needed, if the last printed label was damaged, lost, media got empty, etc. When activated, last label (! 1 label !) that was printed last is recalled and printed identically as it was printed before, that means, if there were any variables transferred from other systems, devices, counters, databases, RTC, etc. to be printed in the label, they stay completely the same as they were printed in the last label that was printed before.

Reprint function has two possible operation modes:

- 1. **Mode 1**. Recall the last printed label and put it into the buffer queue to be printed first. If ^O2 is activated, wait until pulse on PIN3 (Start print signal).
- 2. **Mode 2**. Recall the last printed label and put it into the buffer queue to be printed first and print this one label immediately independent on the ^Ox setting.



5/6



# Outputs:

Service required (PIN10): H->L when there is any kind of error.

*End print (PIN11):* Pulse when printing is ended.

Check Media (PIN12): H->L when there is media error.

*Check Ribbon (PIN13):* H->L when there is ribbon error.

**Data Ready (PIN14):** H->L when printjob is in the buffer.