1. Printer connected to cloud server

Interface address

http://cloud.zywell.net:5000/

TCP Request Type

Port number: 9001

Login server data 64 bytes: (HEX)

Data IDX	data	Length (bytes)	illustrate
0-6	1F 1B 10 55 01 02 00	7	Data Header
7-14	Firmware version number, in ASCII characters	8	Firmware version number, ZY80-V10Z
15-26	Device ID, ASCII characters	12	Device ID
27-30	COUNTER	4	count
31-46	Login Password	16	Login Password
47-63	All Zeros	15	reserve

When the server receives this connection, it confirms that the password is correct and allows the printer to connect, otherwise it does not allow login.

2. Printer and Cloud Server LINK Package

After the printer successfully connects to the server, it will send a LINK packet every 20 seconds to determine whether the server is disconnected .

LINK Package

Data IDX	data	Length (bytes)	illustrate
0-6	1F 1B 10 55 01 02 00	7	Data Header

the server receives this LINK packet, it confirms that the printer is online.

3. Printer abnormal status report

After the printer is successfully connected to the server, when the printer status changes, such as out of paper, cover open, cutter error, cash drawer open, offline, or button pressed,
Actively report to the server when the buffer is full.

LINK Package:

Data IDX	data	Length (bytes)	illustrate
0-4	1F 1B 10 55 03	5	Data Header
5	Status	1	Status word bit0 = 1: paper out, =0: paper available bit1 = 1 to open the cover, =0 to close the cover bit2 = 1 Cutter error , = 0 No error bit3 = 1 cash drawer open, =0 cash drawer bit4 = 1 not online, =0 online bit5 = 1 : key pressed , = 0: no key pressed bit6 = 1 buffer full , =0 normal bit7 = 0 Reserved
6-9	00,00,00,00	4	data

4. Specify the print process ID response to achieve cloud printing without losing orders

process ID (d1 , d2 , d3 , d4) is specified by a character string data format. When the character string is specified in ascending order (" 0001 " - " 9999 "),

Timing makes it easy to confirm the processing order. Print data for each order and assign a process ID to each order , such as printing three orders

(" 0001 ", " 0002 " and " 0003 "). (Each time an order is completed, the process ID of the current order is returned . When the host receives the process ID response

the response is " 0003 ", the host can judge that "the three orders are printed")

This data is sent at the end of each print data.

The host sends:

Hex: 1D28 48 06 00 30 30 d1 d2d3 d4

d1 = 32 ~ 126

d2 = 32 ~ 126

d3 = 32 ~ 126

d4 = 32 ~ 126

Printer returns:

Hex: 37 22 d1 d2 d3 d4 00

EXP:

If the host sends the program ID:

OUT:

..... [Single data]

.....[Single data]

.....[Single data]

1D 28 48

06 00 30 30 30 30 30 31

Printer Returns

IN : 37 22 30 30 30 31 00

The process prints the order "0001" , printing is completed, the order number is incremented by 1 , and the next order becomes "0002"