ST-026 Coin Bill acceptor to IOT converter.





SINTRON TECHNOLOGY



Features:

Compatible with almost all the Coin acceptor/Bill acceptor that is with Pulse output. Clients don't need to do any adjustment, only need to pus ST-026 between the Coin acceptor/Bill acceptor, then the machine would become IOT device right away! so that you can monitor the statues of your machine any time anywhere from your mobile phone, computer etc...and you can also output the data with Excel file to analyze how to optimize your machine to achieve better sales!

application range:

suitable for Vending Machine, Game Machine, Claw Machine, Money Exchange Machine and any device that are with Coin acceptor/Bill acceptor with Pulse output. also other device that is with output pulse voltage between 3.3v~12V.

Wirings:

ST-026 can accept 2 input devices at the same time, the Connectors are :

(input 1, output 1) & (input 2, output 2)

Input 1 can connects to Coin acceptor/Bill acceptor's signal output, usually they also have 4 pin connector to plug in, please notice the pin definition is marked on the board with { 12v , signal , Gnd , counter } , must make sure the pin connection is correct to avoid damage!

output 1 is also with { 12v, signal, Gnd, counter }, signal is with 5V pulse output. the signal pulse length and type would be the same as your own Coin acceptor/Bill acceptor. ST-026 doesn't change the pulse type to that there's no compatible issue.

PS. input 2 & output 2 works the same as input 1 & output 1

the wirings before adding ST-026 :



the wrings after adding ST-026 :



ST-026 only bypass the signal and do its job, so it won't affect your original wirings structure, this design makes ST-026 compatible with almost 99% devices.

Instruction

Get the API Key :

1.Go to: http://<u>iot.sintron.co.uk</u> registers your own account. (you can use computer or mobile [,] here we use mobile as an example)

□ SintronTech				
Sign up to	o start using Sintro	nTech		
User ID	John			
Email	Jonh@example.com			
Time Zone	(GMT+08:00) Taipei	•		
Password	•••••			
Password Confirmation	•••••			
Create Account				

2.After you registered, please select: Channels - New Channel



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3. Click "Channel Settings" tab and fill the NAME for your machine.

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4. Then click "API Keys" tab , and copy "Wirte API key", you will need this "Write API Key" later , this is your own unique ID, please keep it safe and never reveal to others!

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Read AF	PI Keys	
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Well done! So far so good, now we are going to enter "setting mode" for ST-026.

Enter Setting mode: (only for first time set up)

1. Press the button on ST-026 and hold it still, then turn on power.



2.. If connection is correct, after power on, the LED would blink once to indicate that it's with power.

3. Then if Entering "SETUP MODE" successfully, the LED would blink 2 times again to indicate it's now in SETUP MODE.

4.Use your mobile or computer, turn on Wifi and find the SSID: IOT-SINTRON.COM

then connects to ST-026.

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Wi-Fi		
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IOT-SINTRO	DN.COM	₽ 奈 (i
P880		₽ ╤ (i)
Other		
Ask to Join Net	works	\bigcirc
Known networks will be joined automatically. If no known networks are available, you will have to manually select a network.		

5. If you are using Mobile, after you connect to ST-026, in about 3 seconds, it will pop up the set up page automatically.

If it doesn't pop up or if you are using computer, please use browser (Google Chrome recommended), and go to : 192.168.4.1



6.Click "Configure WiFi", Choose Your Router's WIFI SSID & fill in correct Password also fill in Write API Key. (Write API Key is the one you got from previous steps, do not use the same one as below picture) (this step is CAPITAL SENSITIVE)

192.168.4.1 IOT-SINTRON.COM			
$\langle \rangle$	Log In		Cancel
<u>chen</u>			100%
<u>P880</u>		۵	78%
<u>zeng</u>		٥	40%
dlink-25	i	٥	38%
<u>dlink</u>		٥	30%
dlink-22	1	۵	30%
ablerex		۵	26%
dlink-23	<u>l</u>	•	24%
chen			
	••••		
ZJX4YE	98RSL2GAXK		
輸入」	上一步驟複製的API key		
	save		
	<u>Scan</u>		

7.Click "save ",then it's done!! after you reboot ST-026 , it should connect to your router's WiFI, if successfully connected, the LED would blinks 3 times to indicate the Wifi connection is ok!

(if not, please check again if Password and Write API KEY is correct)

8. Now when you insert coins, the LED would flash, and you can goes back to <u>http://iot.sintron.co.uk</u> to find your machine's channel, it would have updated data now!!

(P.S. ST-026 would upload the data every 60 seconds, so please wait a while if you don't see it.)



Specs:

Categories	ltems	Values
WiFi Paramters	Certificates	FCC/CE/ROSH
	WiFi Protocles	802.11 b/g/n
	Frequency Range	2.4GHz-2.5GHz (2400M-2483.5M)
Hardware	Peripheral Bus	UART/HSPI/I2C/I2S/Ir Remote Contorl
Paramaters		GPIO/PWM
	Operating Voltage	12V
	Operating Current	Average value: 80mA
	Operating Temperature Range	-40°~125°
	Ambient Temperature Range	Normal temperature
0	Package Size	75mm*47mm*1.2mm
	External Interface	by Pass original Pulse Signal
Software	Wi-Fi mode	station/softAP/SoftAP+station
Parameters	Security	WPA/WPA2
	Encryption	WEP/TKIP/AES
	Firmware Upgrade	UART Download / OTA (via network) /
		download and write firmware via host
	Ssoftware Development	Supports Cloud Server Development / SDK
		forcustomfirmwaredevelopment
	Network Protocols	IPv4, TCP/UDP/HTTP/FTP
	User Configuration	AT Instruction Set, Cloud Server, Android/
		iOS App