arduino Server

this is web service for Arduino HardWare comunication. Its functions include get Button Status and set strip(8 Leds) and Status(1 Led) colors; all of request or response data format is JSON.

API List

index	Method	function	URL	Description
1	GET	get button status	http://localhost:3420/getkeys	
2	GET	some label button status	http://localhost:3420/getkey?id=XXX	
3	GET	callback	http://localhost:3420/callback?port=XXXX	xxxx Server Listen port
4	GET	remove callback	http://localhost:3420/rmcallback?port=XXXX	
5	POST	Post LEDS Status	http://localhost:3420/leds	Set LED Color, Only this is POST
6	GET	cleanup	http://localhost:3420/cleanup	clear all fixture
7	GET	set fixture on	http://localhost:3420/ledson	all fixture LED ON
8	GET	Serial count	http://localhost:3420/count	get Opened serial port

index	Method	function	URL	Description
9	GET	get Fixture version	http://localhost:3420/version	get version
10	GET	get Serail status	http://localhost:3420/serialstatus	
11	GET	Query Back List	http://localhost:3420/querycallback	Query register Callback

Get:

http://localhost:3420/getkeys

return all label button status

http://localhost:3420/getkey?id=XXX

return some label button status, include Label xxx

http://localhost:3420/callback?port=XXXX

setting callback , xxxx TCP Server Listen Port.

http://localhost:3420/rmcallback?port=XXXX

remove callback , xxxx TCP Server Listen Port.

TCP Server will receive Key Clicked. 1->0
'release:\r\n' server will receive key squance.

TCP Server will receive Key Pressed. 0->1
'pressed:\r\n' server will receive key squance.

if TCP Server shutdown , retry connect or remove by settings config.

POST:

http://localhost:3420/leds

{"status":"strip", "label":3, "colors":[[r,g,b],[r,g,b],[r,g,b]]}
this set one strip. Only set One strip. and turn off the other strip at the same time. colors MAX cout is 8. MIN is 1. The example is 3. r, g, b is RGB COLOR SYSTEM VALUE.

example:
{"status":"strip", "label":1, "colors":[[128,0,128],[0,255,128]]}

{"status":"strip", "label":1, "colors":[[128,0,128],[0,255,128]]}
{"status":"status", "labels":[{"label":3, "color":[r,g,b]},{"label":4, "color":[r,g,b]}]}
status allow every Leds turn on. so if you want to turn off the Status LED. set color is [0,0,0] status only change the label field identy. and the others will keep old status.

example:
{"status":"status", "labels":[{"label":3, "color":[255,128,0]},{"label":4, "color":[0,128,255]}]}

{"status":"test", "label":3, "colors":[[r,g,b]]}
this command set strip LED and status LED on label turn on using [r,g,b]. strip 8 LEDS color is [r,g,b] , status 1 LED color is [r,g,b]; only support 1 Color. other LED will turn off. this command does not affect the other fixture.

serialport raw data:
A1,2,128,0,128,0,255,128,
A15,8,128,0,128,0,255,128,128,0,128,0,255,128,128,0,128,0,255,128,128,0,128,0,255,128,
B0,8,128,0,128,0,255,128,128,0,128,0,255,128,128,0,128,0,255,128,128,0,128,0,255,128,
B0,8,222,122,0,0,255,0,255,128,0,0,128,255,0,0,0,0,0,0,0,0,0,0,0,0,

T15,3,255,255,255, //test 15 means strip index 15, 3 means status index 3, other color(Only support 1)

Get:
version:1.0.0.8
add cleanup interface

http://localhost:3420/cleanup

turn off All LEDs

http://localhost:3420/ledson

turn on All LEDs

version:1.0.0.13
Add
/count interface to get current use serial ports

http://localhost:3420/count

return json

http://localhost:3420/version

Get Fixture Version
return Json

http://localhost:3420/serialstatus

Get Serial Ports Status
return Json

http://localhost:3420/querycallback

Get Register callback
return Json