LED Digital WIFI DMX512 Controller Specifications

1. Features

- (1). One port controls maximum 2048 pixels.
- (2). You can connect your android phone to H806SB via WLAN to control leds.
- (3). H806SB supports dozens of single-line and double-line chips.
- (4). You can also use four buttons to set play mode, switch files, increase or decrease speed.
- (5). DC5V or DC12~24V input.
- (6). Maximum control radius: 25m

2. Product Display



3. Supported Chips

LPD6803, LPD8806, LPD1882, LPD1889, LPD6812, LPD1883, LPD1886, DMX512, HDMX, APA102, MY9221, UCS6909, UCS6912, UCS1903, UCS1909, UCS1912, UCS8904, WS2801, WS2803, WS2811, WS2812, TM1803, TM1804, TM1809, TM1812, TM1829, TA9912, TM1913,

TM1914, TM1926, TM1814, INK1003, LX1003, LX2003, LX2006, TLS3001, P9813, P9816, SM16711, SM16716, LD151x, LD153x, MBI6021, MBI6023, MBI6024, etc.

Note: H806SB supports more than the chips listed above(some chips have the same sequence diagram, for example UCS2903 has the same sequence diagram with UCS1903, H806SB supports them all).

4. Workflow

Assume you have a 32*32 (pixels) WS2812 panel

Step1. Set them up



Step2. Program with LED Build Software

LED Build Download: <u>https://drive.google.com/open?id=0B1gzqyV6hfOgN2pkMV8yMFozYzQ</u> LED Build Tutorial Video Download: https://drive.google.com/open?id=0B1gzqyV6hfOgUnFjeG9EM3VRZjA

Software Brief Introduction

(1). Place Pixels



(2). Light Setting

ontroller se	etting							×	
Bright 100	• 💌	ClockRate	1.00	✓ MHz		Port Number:	1	Gamma: 2.2	
LightType:	RGB	~ Add		IC	Type:	TM1812	~	ColorReverse	
			1.50034274			HasEnable	^		
⊠No.	LightType	IC Type	Clock	Bright	Reve	PD1883	100		
1	RGB	TM1812	1.00	100	N	CLPD8806			
						LPD1886			4
						LPD1882	0	002 TH1004 TH1000 H0040021	
control sign	nals: TT					TM1803 DMX512 HDMX WS2803 WS2801 TM1914 TM1829 APA102 APA102-65536 TLS3001 HM_DMX DM413 DM413 DM413 DM413 DM413 SM16711 SM16716 BS0825 BS0901 BS0915			

(3). Make Effects



you can import video as well

Look in:	flash效果		 G 	► 🔝 🔁			
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Network	File name:	sprite545		~ Op	en	HighSpeedImpor	tSW
			2 2 22			Output Controller	Dat

(4). Output controller data and put it into SD card



For more details, please refer to the tutorial video post above.

Test file download: https://drive.google.com/open?id=0B1gzqyV6hfOgTkRHRTR2dGswT0U (one line 200 pixels, for WS2811, WS2812 strip, copy them to sd card)

Step3. Control panel with 4 buttons

Power controller and panel up, now you should be able to control panel with four buttons.

Step4. Control panel via phone

APP for android phone: LED DPF

LED DPF download: https://drive.google.com/open?id=0B1gzqyV6hfOgSVNqTXFWWE5aR0E

Assume we've had 6 files in SD card

and us changing dat			
gradual changing.dat	2016/10/14 10:02	DAT 文件	177 KB
💼 static blue.dat	2016/10/14 9:58	DAT 文件	51 KB
💼 static green.dat	2016/10/14 9:57	DAT 文件	51 KB
📄 static red.dat	2016/10/14 9:56	DAT 文件	51 KB
💼 static white.dat	2016/10/14 9:58	DAT 文件	51 KB
📰 water flow.dat	2016/10/14 10:03	DAT 文件	246 KB
	 static blue.dat static green.dat static red.dat static red.dat static white.dat water flow.dat 	Image: Static blue.dat 2016/10/14 9:58 Image: Static green.dat 2016/10/14 9:57 Image: Static red.dat 2016/10/14 9:56 Image: Static white.dat 2016/10/14 9:58 Image: Water flow.dat 2016/10/14 10:03	m static blue.dat 2016/10/14 9:58 DAT 文件 m static green.dat 2016/10/14 9:57 DAT 文件 m static red.dat 2016/10/14 9:56 DAT 文件 m static white.dat 2016/10/14 9:58 DAT 文件 m static white.dat 2016/10/14 9:58 DAT 文件 m water flow.dat 2016/10/14 10:03 DAT 文件

Install LEDDPF. apk and open it



Click controller name in "WLAN Set", connect controller to phone.



Note:

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1 💼 gradual changing.dat	2016/10/14 10:02	DAT 文件	177 KB
2 📄 static blue.dat	2016/10/14 9:58	DAT 文件	51 KB
3 📄 static green.dat	2016/10/14 9:57	DAT 文件	51 KB
4 📰 static red.dat	2016/10/14 9:56	DAT 文件	51 KB
5 💼 static white.dat	2016/10/14 9:58	DAT 文件	51 KB
6 water flow.dat	2016/10/14 10:03	DAT 文件	246 KB

these files are placed in alphabetic or numeral order

Now you can press these icons to switch program.



Press menu "settings" to adjust speed and brightness.



So far, you can switch programs, change speed and brightness with phone.

Step5. Doodle

In this example: 32 pixes by 32 pixels WS2812 panel Width and Height: 32 RGB order: RGB(for instance) Sculpt: Left Bottom vertical snake(for instance)



Step6. Configure Router

Note: before configuring each H806SB to router with phone, make sure your phone has been connected to each H806SB directly

Note the color of "H806SB" in the following example, it's green, which means phone has been connected to H806SB directly







If you have mutiple H806SBs and want to configure them all to router. For the first H806SB, just connect phone to it directly first, then connect it to router. For the others, just do the same.





5. Button operation and indicator lights status

Power controller on.

With SD card inserted, green light is on and keeps still, red light is flashing. Without SD card, green and red light are on and all keep still.

Button	Function	Indicator lights status
LOOP/SINGLE	Switch between loop playback and single playback	Loop playback: green light is on Single playback: green light is off
File	Switch files	Nothing changes
SPEED-, SPEED+	Set speed, maximum speed is 100, minimum speed is 1	Nothing changes

6. Package Include



7. Specifications

Input Voltage: DC 5V~24V Power Dissipation: 0.3W Drive Pixels Number: 2048 Control Radius: 25m Weight: 0.34KG Dimension: L150 x W82 x H38