Product Specification

Full Color Asynchronous Control Card
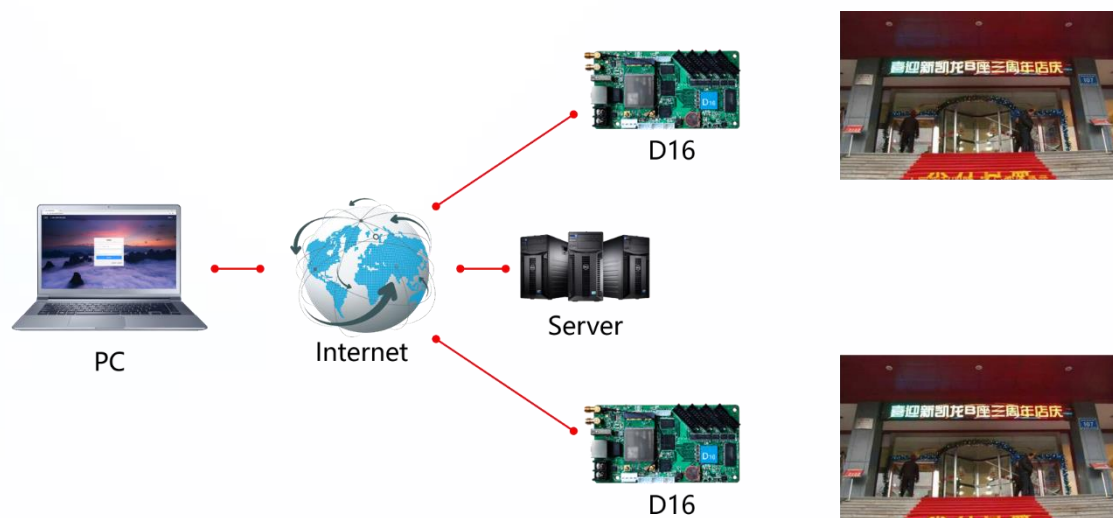
HD-D16

V1.0

I. System Overview

HD-D16 Full color asynchronous Control System is an LED display control system for Lintel led screens, car screen and full color small size led screens. It is equipped with Wi-Fi module, support mobile APP control and Internet remote cluster control.

Supporting computer control software HDPlayer, mobile phone control software LedArt and HD technology clouds management platform.
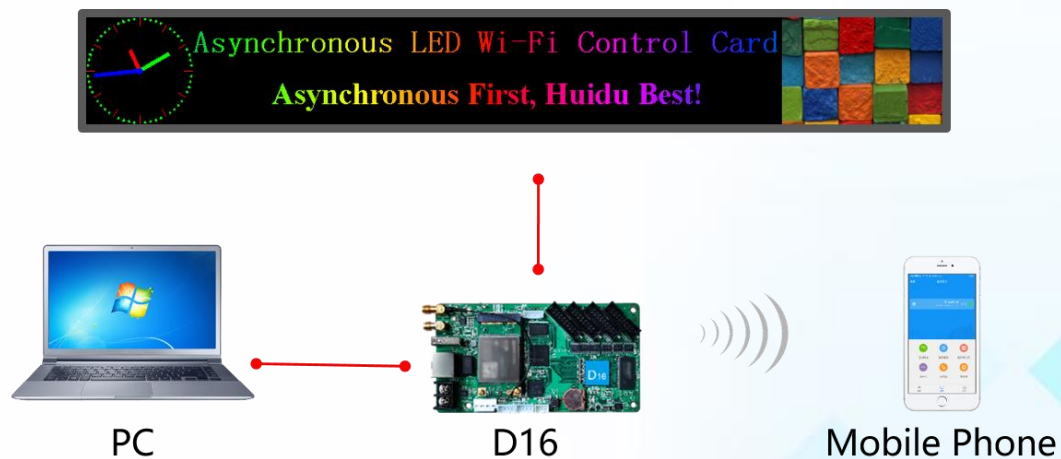
HD-D16 can play offline with on-board 4GB storage space which is for storing program files.

II. Application Scenario

1. The internet cluster management diagram is as follows:

2. The control card can be connected directly with the computer Wi-Fi to update the programs, as shown below:

Note: HD-D16support update the programs by U-disk or removable hard disk.

III. Product Features

1. Standard Wi-Fi module, mobile App wireless management;
2. Support 256~65536 grayscale;
3. Support Video, Picture, Animation, Clock, Neon background;
4. Support word art, animated background, neon light effect;
5. U-disk unlimited expansion program, plug in broadcast;
6. No need set IP, HD-D15 could be identified by controller ID automatically;
7. Support 4G/Wi-Fi/ and network cluster management remote management;
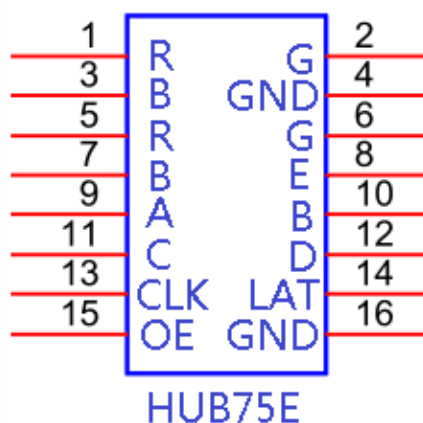8. Support 720P video hardware decoding, 60HZ frame rate output.

IV. System Function list

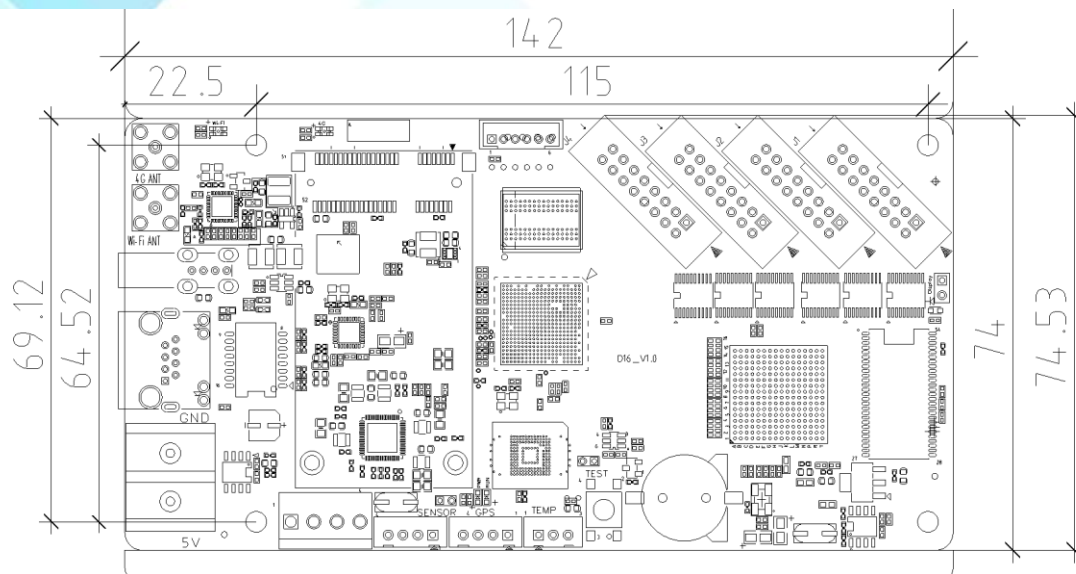| Features	Parameters
Module type	Static to 1-64 scan modules
Control Range	1024*64, Widest: 1024, Highest:256
Gray Scale	256~65536
Video Formats	60Hz frame rate output, support 720P video hardware decoding, direct transmission, no trans-coding waiting. AVI, WMV, MP4, 3GP, ASF, MPG, FLV, F4V, MKV, MOV, DAT, VOB, TRP, TS, WEBM, etc.
Animation Formats	SWF,FLV ,GIF
Image Formats	BMP,JPG,JPEG,PNG etc.

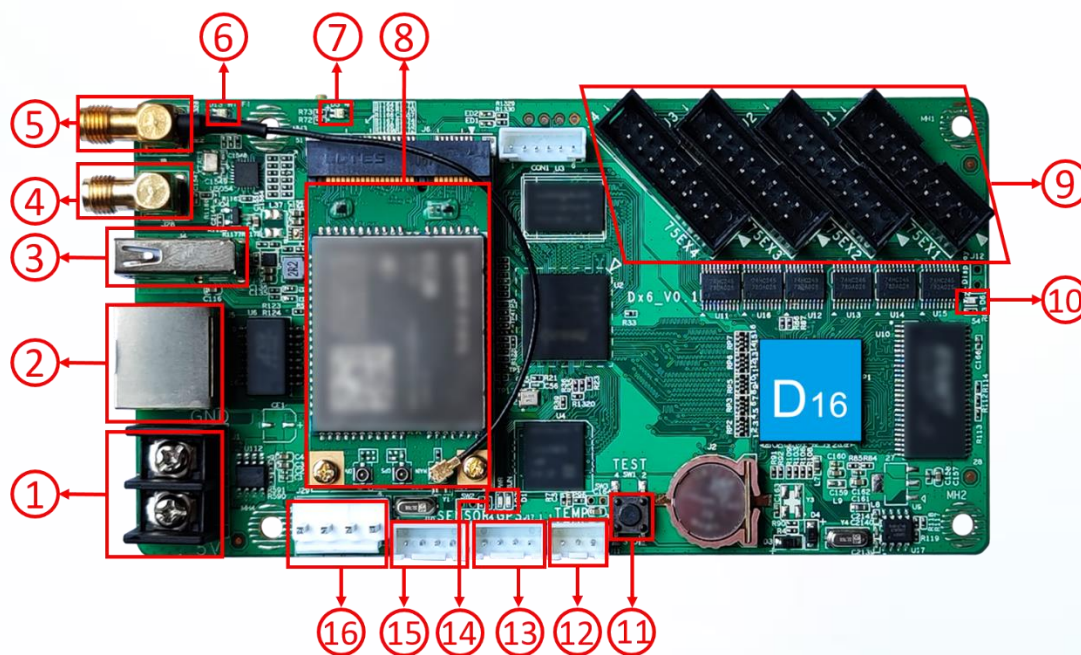| Text	Support text message editing, inserting picture;
Time	analog clock, digital clock and a variety of dial clock functions
Other function	Neon, animations function; Clockwise/counter-clockwise count; support temperature and humidity; Adaptive brightness adjustment function
Memory	4GB memory, more than 4 hours' program support. Indefinitely expanding memory by U-disk;
Communication	U-disk/Wi-Fi/LAN/4G(Optional)
Port	5V Power *1, 10/100M RJ45 *1, USB 2.0 *1, HUB75E *4
Power	5W

V. Interface Definition

Support 4 groups HUB 75E parallel data are defined ad follows:

VI.   Dimension Chart

VII. Interface Description

1. Power terminal, connect 5V power;

2. RJ45 network port and the computer network port , router or switch connected to the normal working state is orange light is always on, green light flashes;

3. USB port: connect to the USB device for update program;

4. Wi-Fi Antenna connector socket: weld antenna socket of Wi-Fi;

5. 4G Antenna connector socket: weld antenna socket of 4G(Optional);

6. Wi-Fi indicator light: display Wi-Fi work status;

7. 4G indicator light: display 4G network status;

8. 4G module: Used to provide control card to access the Internet (Optional);

9. HUB75E port: connect LED screen by cable,;

10. Display light (Display), normal working state is flashing;

11. Test button: for test the brightness and contrast of the display screen;

12. Temperature Sensor port: for connect to Temperature;

13. GPS port: for connect to GPS module, use for time correction and fixed position;

14. Indicator light: PWR is the power indicator, the power supply normal indicator is always on; RUN is the indicator, the normal working indicator flashes;

15. Sensor port: for connect external sensor, Such as environmental monitoring, multi-function sensors, etc.;

16. Power port: Foolproof 5V DC power interface, the same function as 1.

VIII. Basic Parameters

	Minimum	Typical	Maximum
Rated voltage(V)	4.2	5.0	5.5
Storage temperature(℃)	-40	25	105
Work environment temperature(℃)	-40	25	80
Work environment humidity (%)	0.0	30	95
Net weight（kg）	0.06		
Certificate	CE, FCC, RoHS		

Precaution

1）To ensure that the control card is stored during normal operation, make sure the battery on the control card is not loose;

2）In order to ensure the long-term stable operation of the system; please use the standard 5V power supply voltage.