Product Specifications

Full Color Asynchronous Control Card

HD-C15

V1.0 20190508

System Overview

HD-C15 Full Color Asynchronous Controller System is a LED control system that supports mobile APP control, Web remote control and offline play HD Video.

Support computer control software *HDPlayer*, mobile phone control software *LedArt* and HD *Cloud Platform*.

HD-C15 integrated sending card and receiving card function, can single cassette with small screen, can also add HD-R50X receiving card control bigger screen.

Controlling System Configuration

Product	Type	Functions
Async controller Card	HD-C15	Asynchronous core control panel, with storage capabilities, can be connected to the screen body.
Receiving Card	R50X Series	Connected with screen, Showing program in Screen.
Control Software	HDPlayer	Screen parameters setting, edit & send program etc.

Control mode

1. Internet unified management: The play box can be connected to the Internet through 3G/4G (optional), network cable connection, or Wi-Fi Bridge.
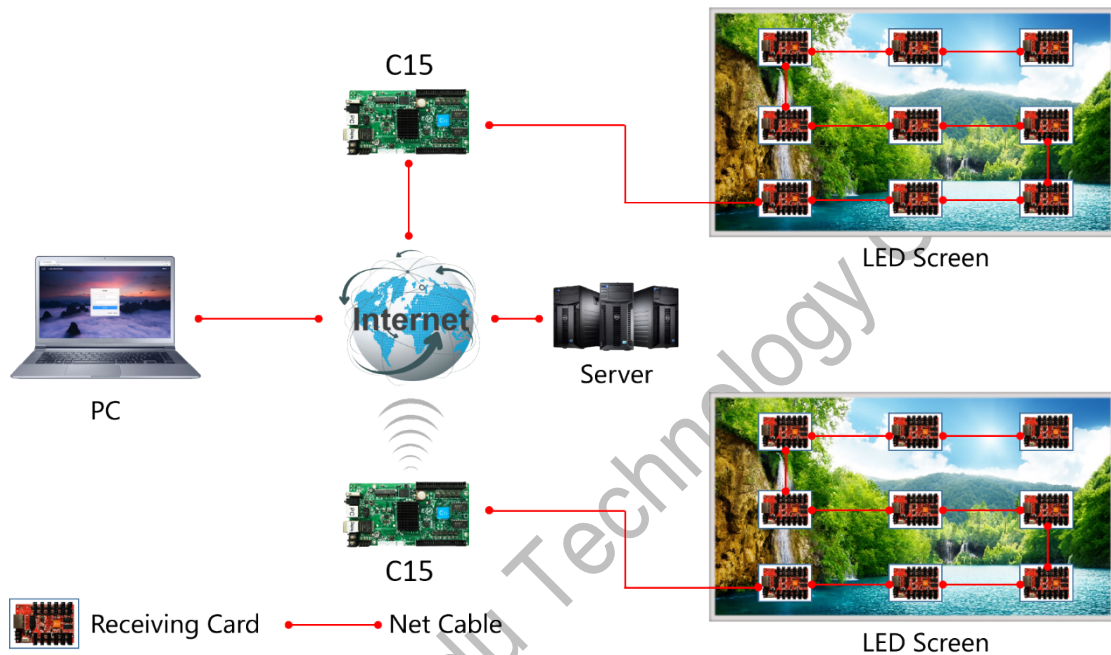
2. Asynchronous one-to-one control: Update programs by network cable connections, Wi-Fi connections or USB flash drives. LAN (cluster) control can access the LAN network through by network cable connection or Wi-Fi Bridge.
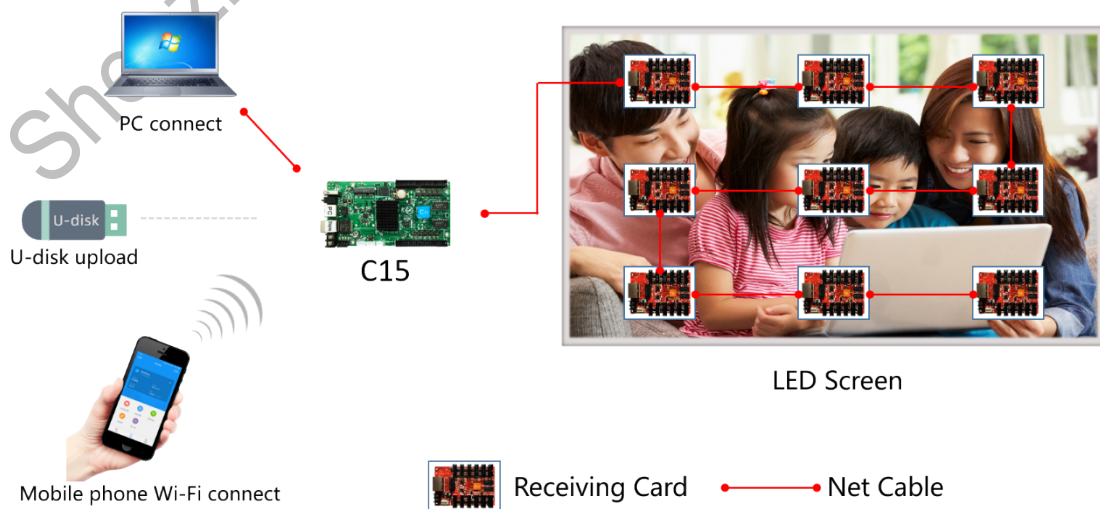
Product features

➢ Control Range: 384*320.

➢ 4GB memory, support expending memory by U-disk.

➢ Support HD video hardware decoding, 60Hz frame rate output.

➢ Support widest 1024 pixel, Highest 512.

➢ No need set IP address, it could be identified by controller ID automatically.

➢ Unified management of more LED display through Internet or LAN.

➢ Support Wi-Fi connection, Mobile APP management.

➢ Equipped 3.5mm standard audio interface output.

➢ Support 3G/4G connect to Internet (Optional).

System function list

Module type	Compatible with indoor and outdoor full color and single color module Support conventional chip and mainstream PWM chip
Scan Mode	Static to 1/64 scan mode
Control Range	384*320, widest 1024, highest 512
Gray Scale	256-65536
Basic functions	Video, Pictures, Gif, Text, office, Clocks, Timing etc. Remote, Temperature, Humidity, Brightness etc.
Video format	Support 1080P HD video hardware decoding, direct transmission, without transcoding waiting. 60Hz frame frequency output； AVI, WMV, MP4, 3GP, ASF, MPG, FLV, F4V, MKV, MOV, DAT, VOB, TRP, TS, WEBM, etc.
Image Format	Support BMP,GIF,JPG,PNG,PBM,PGM,PPM,XPM,XBM etc.
Text	Text editing, Image, Word, Txt, Rtf, Html etc.
Document	DOC, DOCX, XLSX, XLS, PPT, PPTX etc.Office2007Document format.
Time	Classic Analog clock, digital clock and of clock with image background.
Audio output	Double track stereo audio output.
Memory	4GB Flash memory; Indefinite expanding of U-disk memory.
Communication	100M RJ45 Ethernet, 3G/4G (Internet), Wi-Fi, USB, LAN.
Working Temperature	-20℃-80℃
Port	IN:5V DC*1, 100 Mbps RJ45*1, USB 2.0*1, test button*1 OUT:1Gbps RJ45*1, AUDIO*1

Dimension Chart

HD- C15 dimension chart follow：
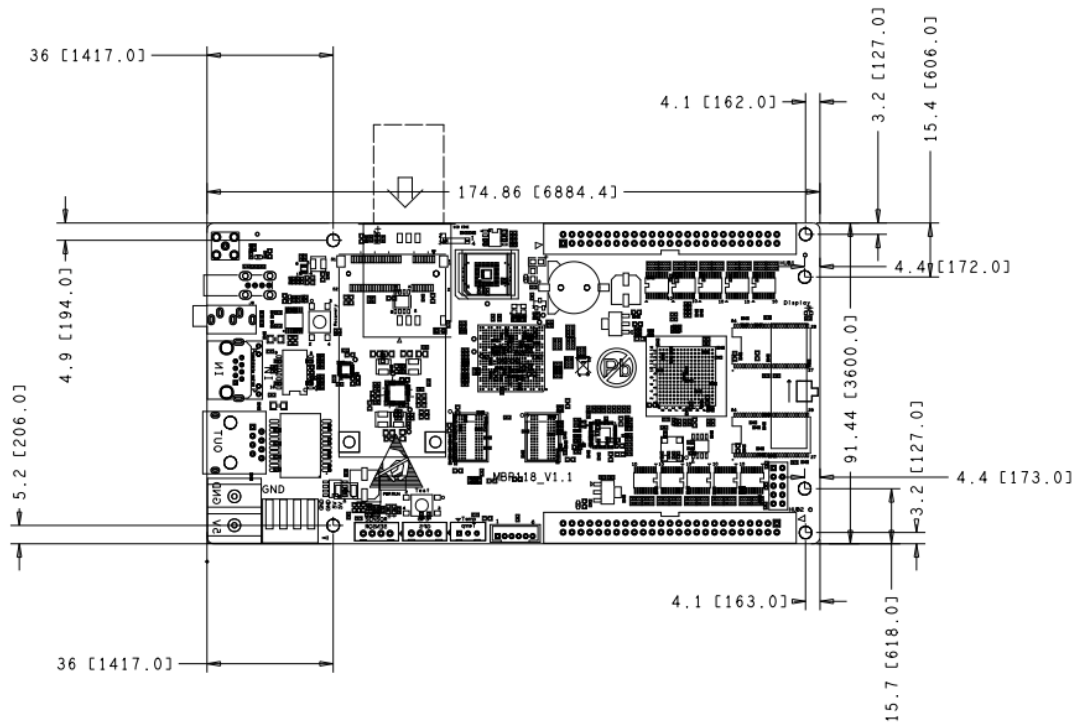
Appearance Description
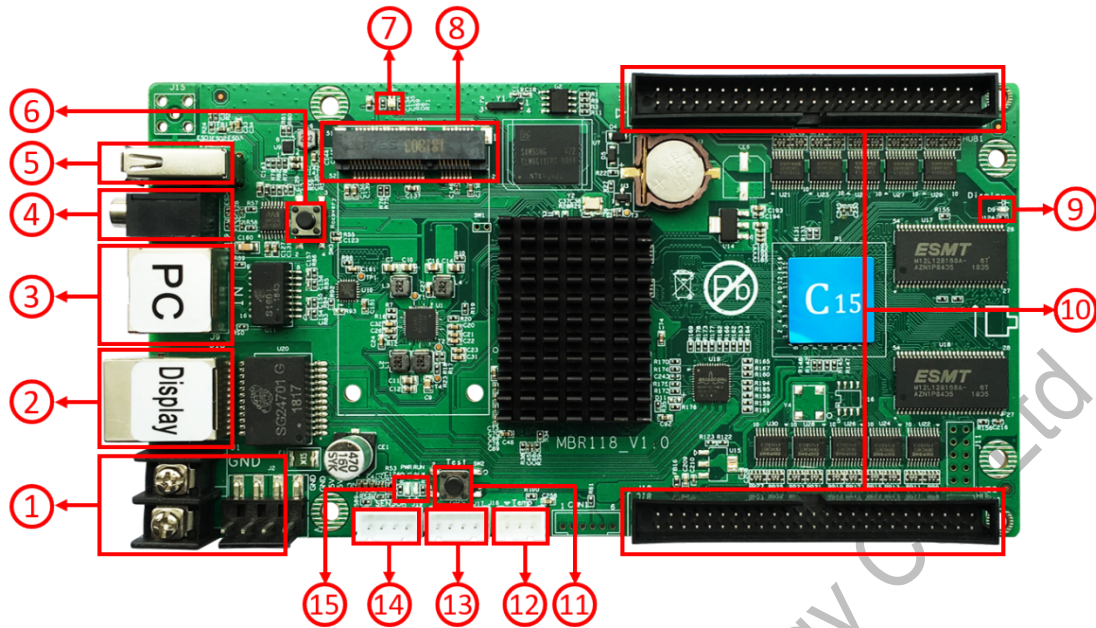
1. Power Supply port: connected 5V DC power supply.

2. Output network port: 1Gbps network port, connect to receiving card.

3. Input Network port: Connect to PC or router.

4. Audio output port: support standard two-track stereo output.

5. USB port: connected to USB device, e.g. U-disk, Mobile hard disk etc.

6. Recovery button: Reply to default parameters.

7. Wi-Fi and 3G/4G module indicator light: Wi-Fi and 3G/4G module work state.

8. Mini PCIE port: connected Wi-Fi or 3G/4G module.

9. Display indicator light: working status is Flicking.

10. HUB75E port: connected to LED modules.

11. Temp port: connected temp sensor.

12. Test button: LED screen burn-in test.

13. GPS port: connected GPS module.

14. Sensor port: connected S108 and S208 sensor.

15. Controller work state indicator light: D1 is Power lamp, D2 is RUN lamp.

Interface definition

Onboard 2 50PIN HUB port

VCC	2	1	GND
VCC	4	3	GND
NC	6	5	GND
BD7	8	7	NC
RD7	10	9	GD7
BD6	12	11	NC
RD6	14	13	GD6
BD5	16	15	NC
RD5	18	17	GD5
BD4	20	19	NC
RD4	22	21	GD4
BD3	24	23	NC
RD3	26	25	GD3
BD2	28	27	NC
RD2	30	29	GD2
BD1	32	31	NC
RD1	34	33	GD1
BD0	36	35	NC
RD0	38	37	GD0
LC	40	39	LD
LA	42	41	LB
CKA	44	43	STB
GND	46	45	OE
GND	48	47	VCC
GND	50	49	VCC

General Full Color Port1

VCC	2	1	GND
VCC	4	3	GND
NC	6	5	GND
NC	8	7	BD7
RD7	10	9	GD7
NC	12	11	BD6
RD6	14	13	GD6
NC	16	15	BD5
RD5	18	17	GD5
NC	20	19	BD4
RD4	22	21	GD4
NC	24	23	BD3
RD3	26	25	GD3
NC	28	27	BD2
RD2	30	29	GD2
NC	32	31	BD1
RD1	34	33	GD1
NC	36	35	BD0
RD0	38	37	GD0
LC	40	39	LD
LA	42	41	LB
CKA	44	43	STB
GND	46	45	OE
GND	48	47	VCC
GND	50	49	VCC

General Full Color Port 2

Technical Parameters

	Minimum	Typical value	Maximum
Rated voltage(V)	4.2	5.0	5.5
Storage temperature(℃)	-40	25	105
Work environment humidity (℃)	-40	25	80
Work environment humidity (%)	0.0	30	95

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 try to use the standard 5V power supply voltage.