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Hardware Information of W10/W20/G10/G20 controllers

1. Physical parameters of control card

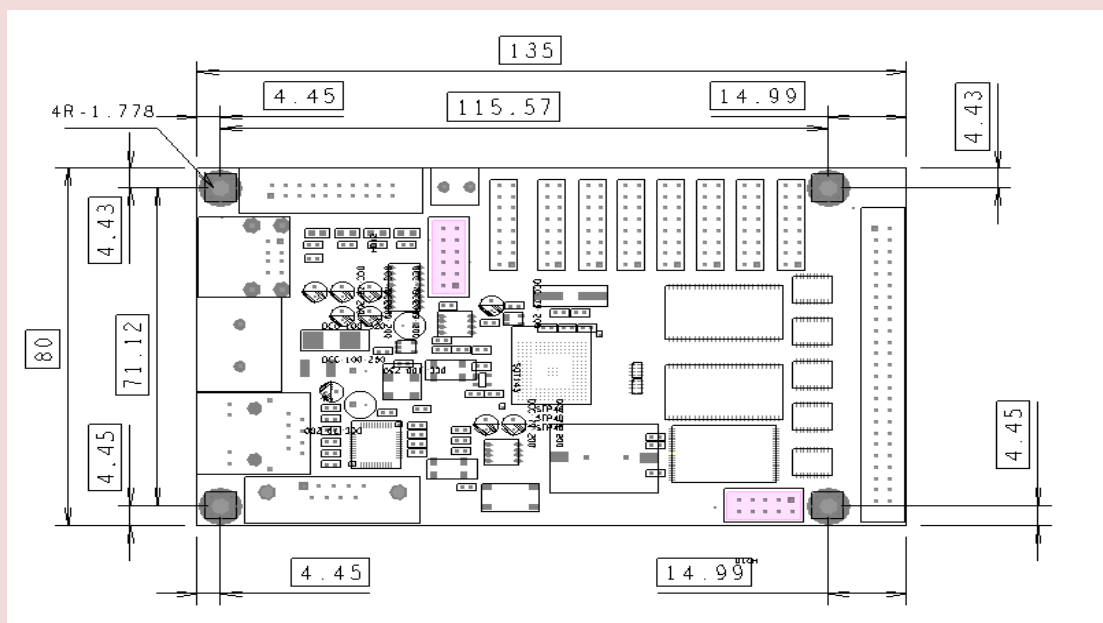
Working voltage	3.6~7.5 V
Working current	< 300mA
Power consumption	<1.5watt
Working temperature	-20°C~+70°C
Dimension	13.5 (L) x8 (W)x3.1(H)cm
Weight	<200g

2. Technical parameters

Mode	G10 (single/double color)	G20 (full color)	W10 (single/double color)
Maximum Pixels	512x256 1024x128 2048x64	1024x64 2048x32	1024x128 512x256 2048x64
Memory	80MB	80MB	80MB
U-disk	NO	NO	Support
Greylevel	NO	NO	NO
Scan mode	Outdoor/indoor	Outdoor/indoor	Outdoor/indoor
Communicate interface	Serial port 485/LAN port	Serial port 485/LAN port	Serial port/LAN port/U-disk
Communicate type	Support LAN and RS485 at present, prepare to add Internet, GPRS, RF, 3G		LAN, Internet GPRS, RF, 3G
Sensor	prepare to add temperature and humidity, auto-adjust brightness function		Support sensor function
Audio	NO		Optional (USB sound card)
Video format	NO	NO	Support

			AVI,WMV,MPG,MOV,DAT,VOB,MP4,FLV etc
Animation format	Support GIF	Support GIF	Support GIF, SWF etc
Image format	Support jpg	Support jpg	Support bmp,jpg,gif,wmf,ico etc
Text	Support single/multi-line text		Support txt, rtf, single-line text, static text, multi-line text and etc
Time	Support digital clock		Support various analog clock and digital clock
Partition	Support 8 windows		divide into several areas randomly
Real-time display	Support		Support clockwise and count down
Software	SysConfig		LEDset2.0/LEDEditor
Demo	LED Demo (VC,C#)		NO

3. Dimension



4. Serial number of control card

Each control card has a unique serial number to indicate the mode, production batch and number,

which also align the MAC address. With this serial number, technicians could provide timely and effective supports. Please protect the label when using the card.

Format of serial number is Mode--production batch—number, details in below:

[Mode]----please refer to “mode catalogue” passage so to judge the card is double color or dull color and also get the pixels information.

[Production batch]---consist of “month” and “year”. 1-12 months show like 1~9, A, B, C. 2000~2099 show like 00~99, two numbers.

[Number]----includes 5 numbers, which stand for the production number 00000~99999.

These above information will decide the unique MAC address and default IP address:

[Unique MAC address]-----contains 12 numbers into six segments: “0” “0” “0” “production bath (3 numbers)” “0” “number (5 numbers)”

[Default IP address]-----192.168.0.200

Take “W20-B07-00888” for example:

[Mode]: W20 is full color control card, max pixels 320x128

[Production batch] and [Number]: 888th control card produced in November, 2007.

[Default IP address]: 192.168.0.200

[Unique MAC address]:”00:0B:07:00:08:88”

5. Version information

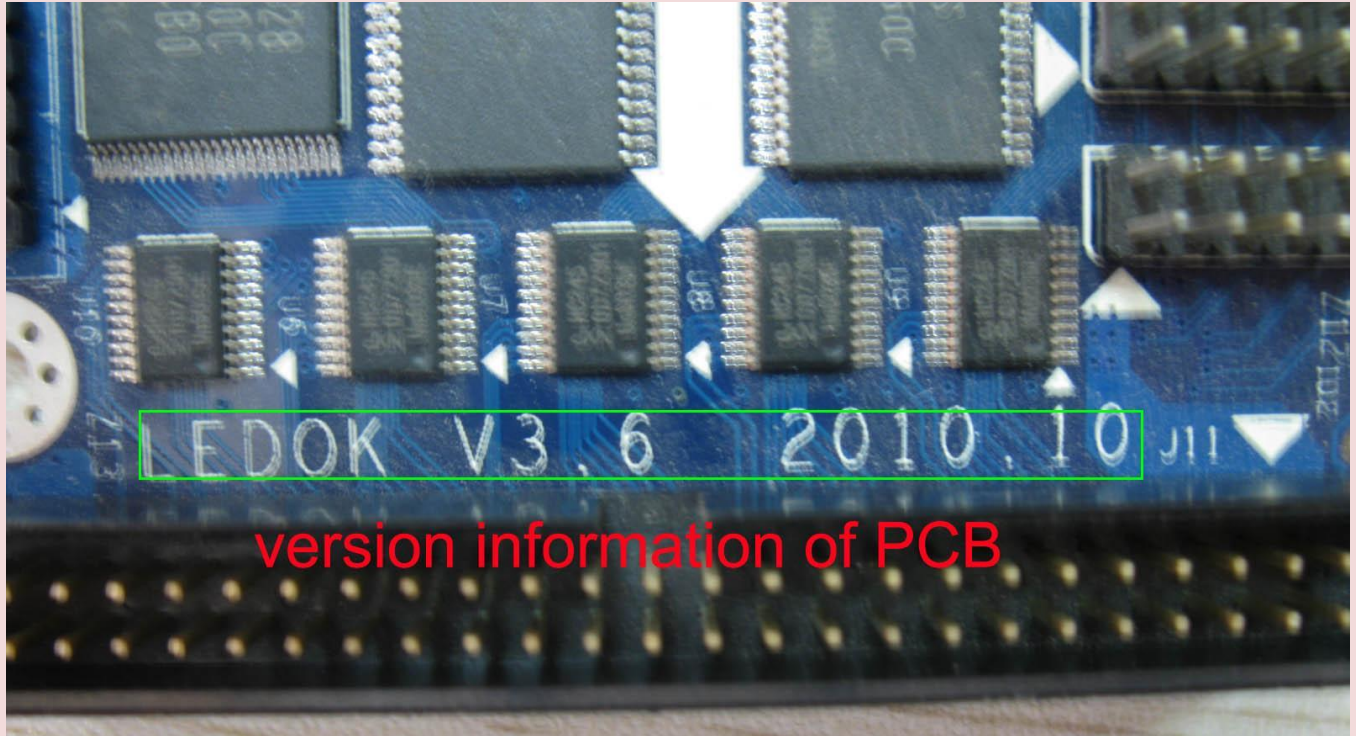
Our company is keeping on improving the controller and has improved functions and stability. Moreover, we make the controller’s hardware and software forward compatible so that customer could upgrade software to latest version. When using LED editor software to manage multi-controller, customer could also check version information of each controller.

PCB version information

PCB version has been printed on the right part of controller, near the 50pin interface.

PCB version contains product name, PCB version, design date

Please see picture in below:

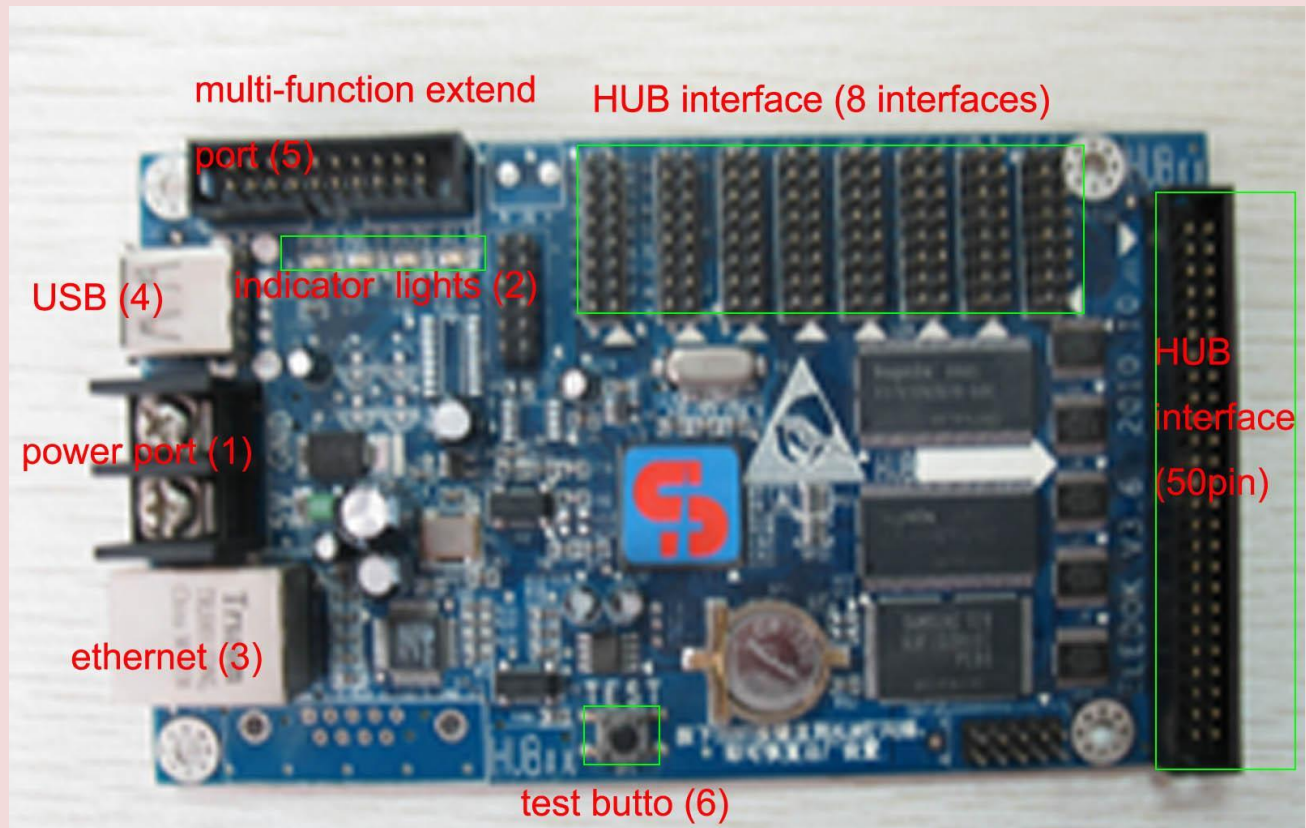


Product name: LED OK, it is the main PCB

PCB version: V3.6 means the 6th version of 3rd solution

Design date: 2010.10. It means design this PCB in October 2010.

6. Illustrate all interfaces in controller



6.1 Power port (1)

The power port is 5V, the controller could afford input voltage range at 3.7~7.5V. We also make enough protection measurements for power part, like over-current self-restore; overvoltage protection, low-voltage, and polarity reverse, filtering and absorb peak protection, so that to protect the controller and display from damage.

6.2 Indicator lights (2)

Indicator lights are located in the left top of controller; the order is POWER, NET, RUN and ALM. When we provide technical support, we need to know the state of each light.

**Power light:**

Turn on: it means the power is normal.

Turn off: please check your power connection and also check whether the controller has been burned.

Net light:

Turn on and blinking: it means the network is normal.

Turn off: please check your network work connection.

Run light:

Turn on: it means the controller state is pause, test or display in real time.

Blinking regularly: the controller display program and work normal

Other: the controller works abnormal. We will analyze in below.

ALM light:

Turn on: the controller has problem, need to do upgrade software or send back to repair.

Turn off: controller could work.

Blinking: when using 3G/internet mode, it means the controller has accessed to server.

If the four lights blinking irregularly that mean the controller work abnormal or could not work. Now please check the hardware and software parameter and check program content.

Solution: at this moment, we advice to do recovery to ex-factory parameters or delete all programs and make new program again.

If the controller still could not work then please consult our engineers; if necessary please send back to repair.

6.3 10MB Ethernet Interface (3)

It is a standard Ethernet interface, so customer can connect controller with computer via cross network cable directly. Customer could also choose LAN and all computers in this LAN could control the card. We also supply internet solution for controller.

Customer could set up, upgrade and test the controller through this interface. Without wire, the controller can access

to high speed network and can be installed in bank, post office, traffic, stock exchange market, campus and workshop and so on.

6.4 USB port (4)

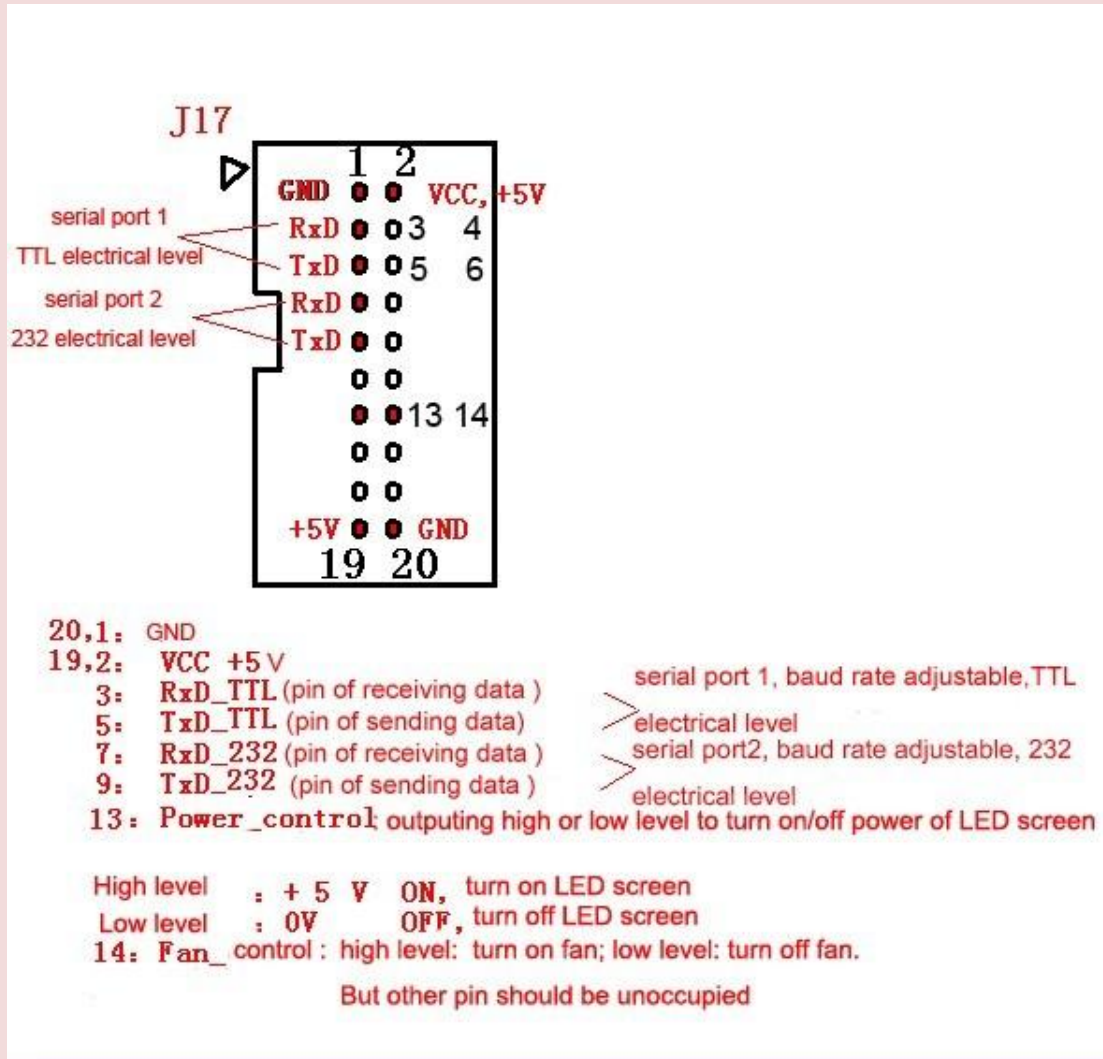
With this standard USB port, customer could plug in U-disk, sound card and other USB port devices. The controller will auto-recognize u-disk as storage, upgrade program. The controller could work with many brands of u-disk. With this solution, customer does not need to install long wires for various advertising displays to upgrading program.

6.5 Multi-function extend interface (5)

This interface has 20pin, which contains three serial communication interfaces (SCL) and multiple program controlled IO control tube feet.

Serial communication interface can connect various devices (sensor, GPRS, RF and computer) through TTL electrical level directly or through RS232/RS485.

Definition of 20pin as shown in below:



6.6 Test button (6)

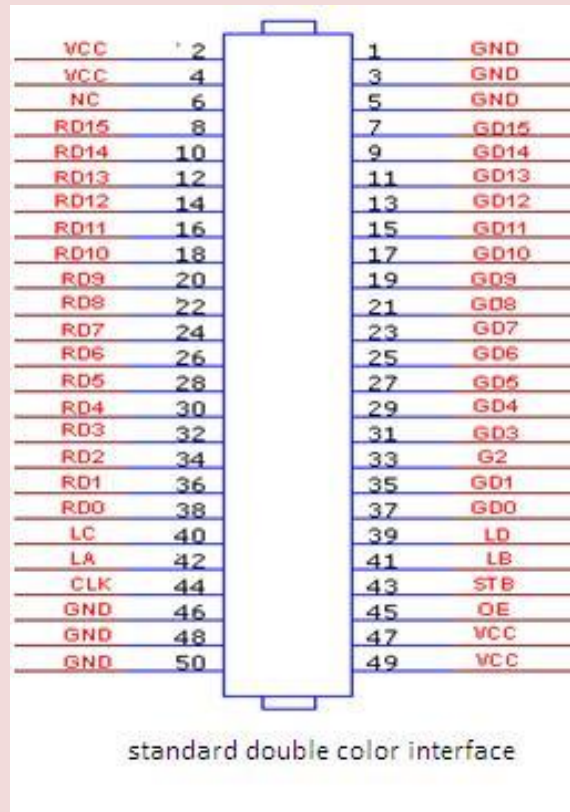
Customer could press TEST button to do many tests, such as main parameters, grey level, screen color, and so on when the controller works fine.

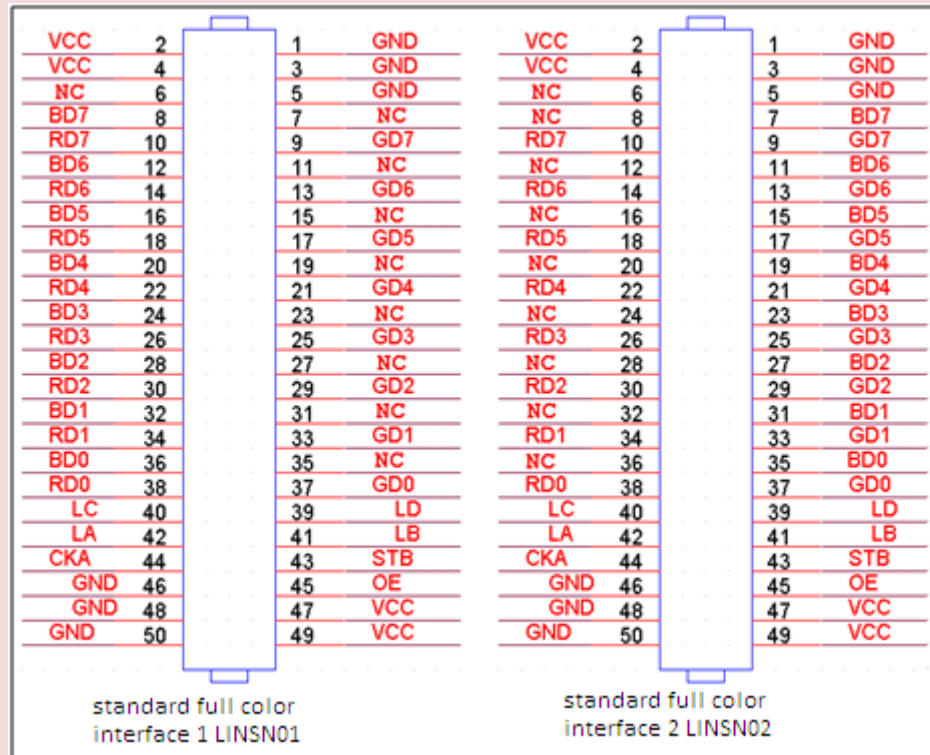
When controller works abnormal, customer could use this button to recovery the controller into ex-factory default parameter.

6.7 HUB Interface 1

In W10/W20/G10/G20, there is one 50pin hub interface, which is the same with main-stream controllers and could compatible with hundreds type of standard hub cards.

50pin definition of double color and full color controller could totally compatible with standard hub cards, as shown in below:





6.7 HUB Interface 2

There are also another 8 interfaces in the controller including J1, J2, and J3J8. If the controllers are W10 and G10 then the 8 interfaces will be 4 HUB12 and 4 HUB08 interfaces. If the controllers are W20 and G20 then do not use these 8 interfaces but just use 50pin interface.

7. Recovery parameters

When customers need to do recovery for control card?

1. Control card version is confusion
2. Control card works abnormal, like RUN light does not bright
3. Could not find control card IP address after trying all methods.

And so on

Before recovery control card, customers should make sure that HCP file has been saved in your computer. Because the control card will lost all parameters just keep the ex-plant parameters after recovery.

Steps of recovering control card:

Step1. Press test button on control card until Power, Net, and RUN and Alarm lights turn on while RUN and Alarm lights blinking, stop press now. This may need 10 seconds.

Step2, repeat step 1

After recovery control card, customers need to do setup again or import existing hcp file directly.

Some ex-factory parameters as shown in table:

Height pixels	128
Width pixels	512(dual color), 256(full color)
Scan mode	1/16(dual color),1/8 scan(full color)
Program	Default table and parameter information
IP address	192.168.0.200