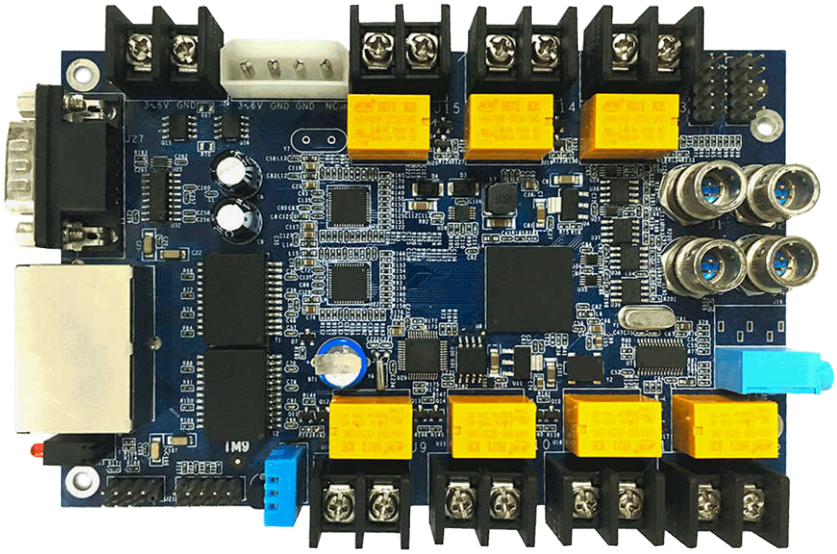
Colorlight



iM9 Multifunction Card

Specification

Colorlight (Shenzhen) Cloud Technology Co., Ltd.

iM9 Multifunction Card

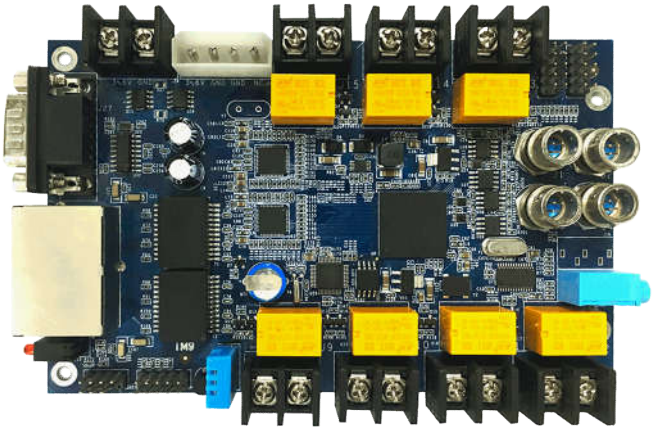
Overview

iM9 multifunction card is an important accessories of the Colorlight control system for environmental monitoring and remote control.

iM9 can be used to monitor the operating environment of the LED displays, such as temperature, humidity, smoke, etc., to ensure the safety of the display.

iM9 can detect the environmental brightness and adjust the brightness of the display automatically in order to make sure the display work in the most suitable brightness.

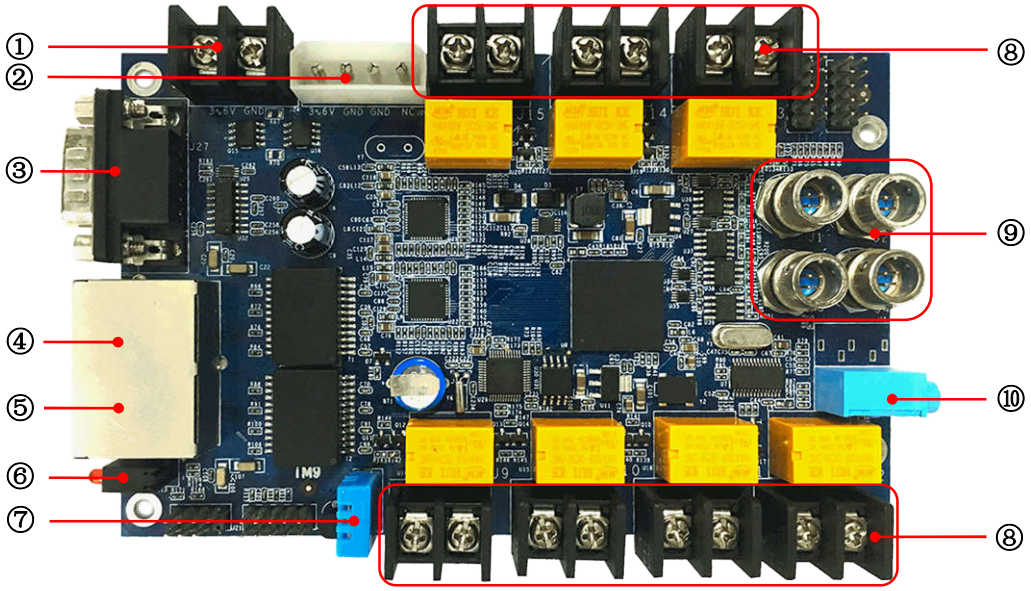
iM9 contains 7 Relays Switches that can be used to control the power supply remotely. Benefit from iM9, you can turn on or off the power supply of the equipments such as display, air conditioning, fans, and power distribution cabinets by the software on the computer, instead of going to the front of the equipments.



Specifications

System compatibility	
Sending device	C series Sender, Z series Sender, S series Sender, etc.
Receiving device	All Series of Colorlight Receiving Card
Transmission equipment	Support Gigabit switch, Fiber Converter
Physical/Electrical	
Size	143*93mm
Power input	DC 3.3~6V supply voltage
Power consumption	4.65W
Weight	138g
Remote Control	
Remote power management	4 switches for LED display 2 switches for air conditioning and fans (can be automatically controlled by the temperature sensor) 1 switches for others
Brightness Adjustment	Automatically adjust brightness of the LED display screen according to environment
Environment monitoring	
Temperature	Support
Humidity	Support (Optional)
Smoke	Support (Optional)
Special function	
Audio Transmission	Support (Optional, need the special sending card)

Hardware

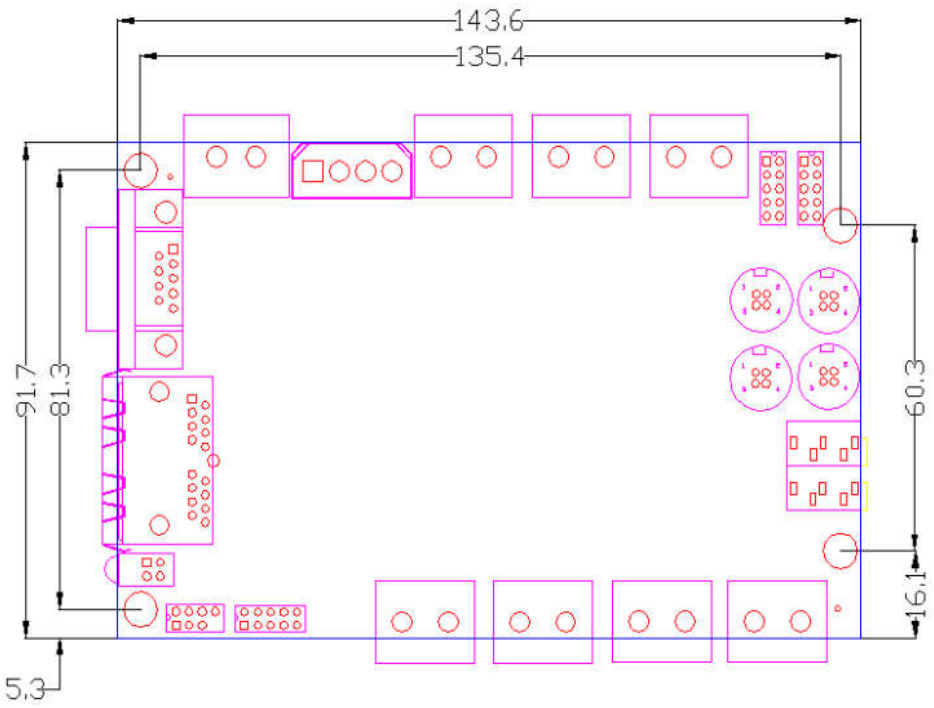
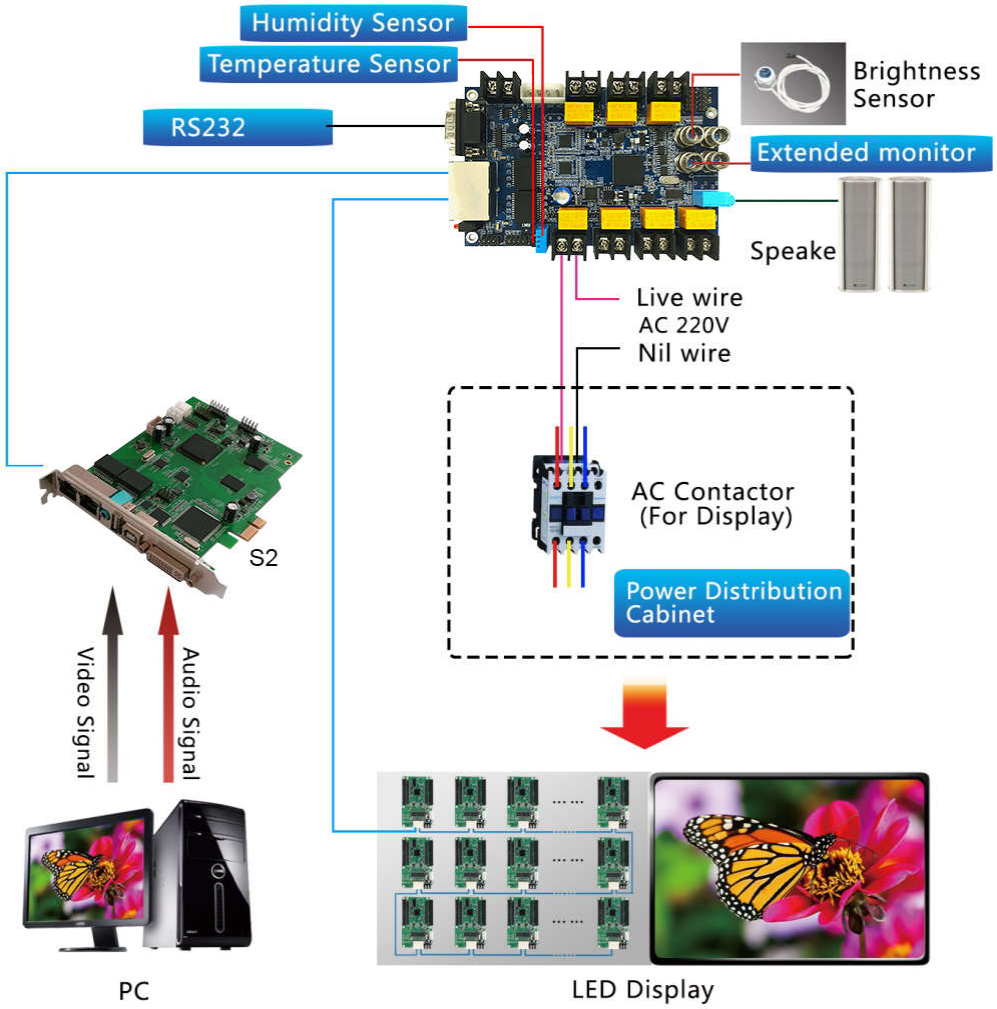


1、Interface descriptions

S/N	Name	Function	Remarks
1	Power 1	Connect DC 3.3-6V power supply for the multi-function card.	Only one is used.
2	Power 2	Connect DC 3.3-6V power supply for the multi-function card.	
3	RS232	For equipment commissioning	
4	Ethernet port A	Connected to sending card	The Ethernet port A and B can achieve import/export at random, which can be identified in an intelligent way
5	Ethernet port B	Connected to receiving card	
6	Indicator	Indicate power and signal working status	Red lamp for power supply, and green for data signal
7	Temperature sensor	Monitor the real-time environmental temperature. That can be used to control the switches of air conditioning or radiator fan.	
8	switches for power control	Used for remote power control, power-on or off delay. These four switches, J9-J12, can be turned on or off automatically linkage delay, to reduce the impact of the grid.	(Attention the maximum current limit)

		J13-J15 can be individually controlled by different sensor for voltage, humidity, smoke, temperature, and the others needed.	
9	Extended monitoring interfaces	Can be used to monitor the voltage, humidity, smoke, and other sensor needed.	Custom-made needed. If you really need to use them, please consult with our technicians.
10	Audio	Used to broadcast the audio from the sending card, which can be translated by the internet cable.	

2、Dimension



3、Connection Diagram