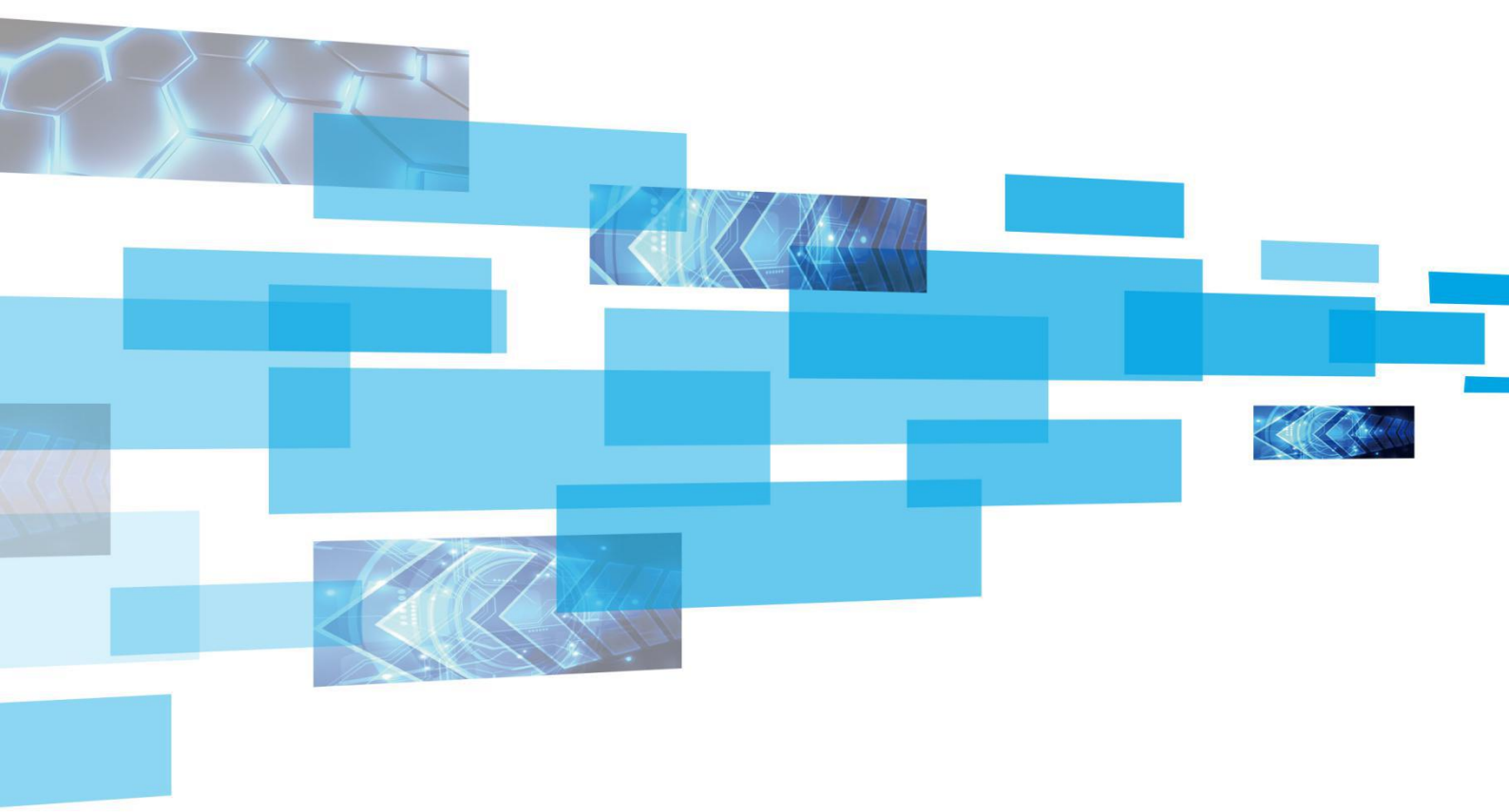




# Univisal Receiver

**D90-210**



## **Product Specification**

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Version No.:Ver.1.0

Doc No.: SYS/C3-0103007088

## Clarification

Dear customers, thanks for choosing Shanghai Xixun Electronic Limited (Sysolution for short)' s LED control system. This document will fast introduce this new product and help you how to use it. We will not notice you when updating this document. When meeting any problems or have any advice during usage of our LED control system, please contact us directly, we will be very happy to help you and appreciate your advice.

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## Brand



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# Update Record

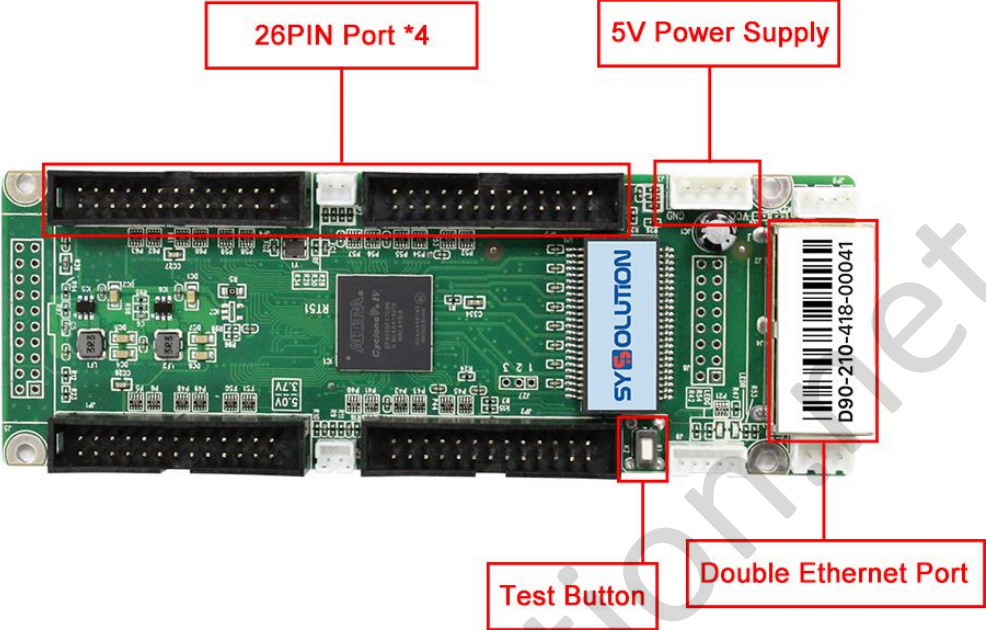
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No.	Version No.	Updates	Revision Date
1	Ver.1.0	Initial issue	2018.04.15

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# Appearance

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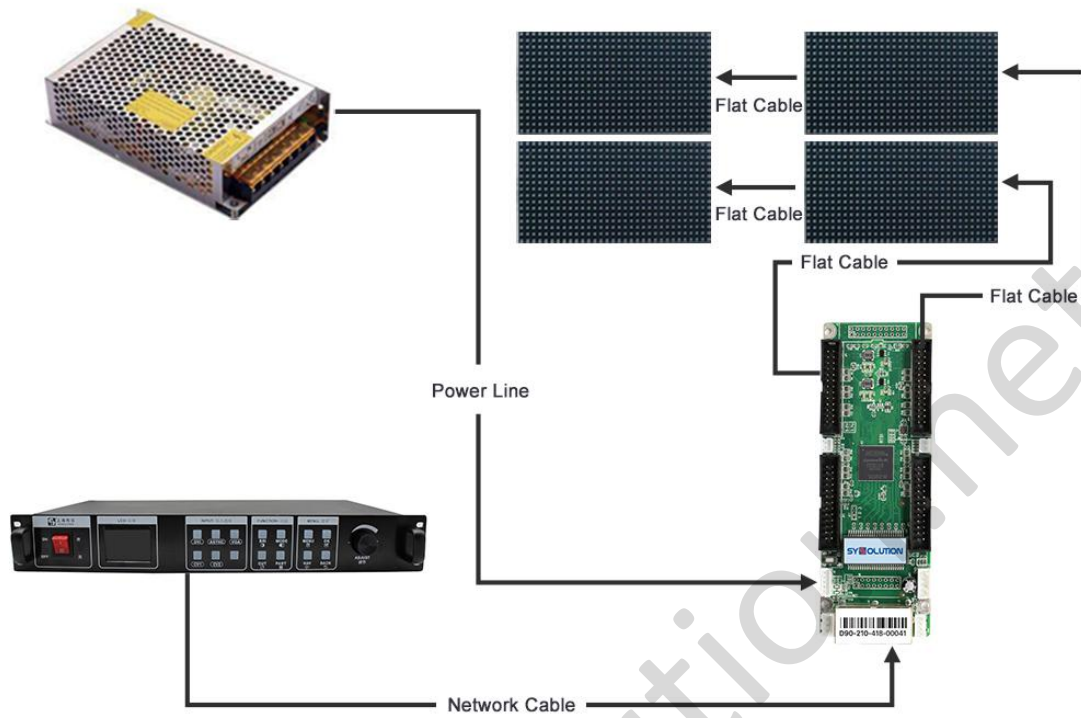


Univisal Receiver D90-210

# Technical Parameters

Features options	Typical value	Maximum value
Supported screen type	Single/dual/full color screens real/virtual pixel	
Supported receiving card quantity, cascading by single network cable	<1000	1000
Supported resolution by one receiving card	128*128	96K pixels
RGB output group of one receiving card	24	24
Lines of one set of RGB driver	1/2/4/8/16/32	1~32
Optical fiber transmit distance	Multi-mode optical fiber: 500Meters; single module optical fiber: 10KM	
Other features	10b video source, LED display self-detecting, OE protection	
Working current	0.6A	1.0A
Working temperature	-10°C - 65°C	
Extreme working temperature	-20°C - 75°C	
Working humidity (%)	0%-95%	

# Connection



# Performances

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**D90-210 is new product promoted by XIXUN company, with tiny size but high standard universal receiving card, it has following features:**

1. 26 sets of RGB output;
2. Support 8/10BIT modes of input image gray level;
3. Output Maximum 20BIT gray level;
4. Support 96K pixels of single receiving card;
5. Wide voltage input range, input voltage range: +3.5V---+5.5V;
6. High refresh rate, high brightness and high gray level for general driver ICs;
7. Support read-back parameters from receiving card;
8. Dual backup for the network cable and support data detecting of ribbon cables;
9. Support cabinet temperature and humidity detection, power supply voltage detection, and fan for cabinet;
10. Support to debug point by point for the brightness and chroma;
11. Support variety of driver ICs including PWM IC, point by point detecting IC and general IC;
12. Support receiving card pre-store picture settings;
13. Support external environment detection;
14. Support charge power from LED module;
15. RoHs and CE-EMC compliant.

# Definition of Output Port

	JP2
OT_A2	1
OT_B2	2
OT_OE2	3
OT_LA2	4
OT_CLK2	5
Vin	6
OUT18	7
OUT19	8
OUT20	9
OUT21	10
OUT22	11
OUT23	12
GND	13
OUT24	14
OUT25	15
OUT26	16
OUT27	17
OUT28	18
OUT29	19
GND	20
OUT30	21
OUT31	22
OUT32	23
OUT33	24
OUT34	25
OUT35	26

IDC26

	JP1
OT_A1	1
OT_B1	2
OT_OE1	3
OT_LA1	4
OT_CLK1	5
Vin	6
OUT0	7
OUT1	8
OUT2	9
OUT3	10
OUT4	11
OUT5	12
GND	13
OUT6	14
OUT7	15
OUT8	16
OUT9	17
OUT10	18
OUT11	19
GND	20
OUT12	21
OUT13	22
OUT14	23
OUT15	24
OUT16	25
OUT17	26

IDC26

	JP3
OT_A3	1
OT_B3	2
OT_OE3	3
OT_LA3	4
OT_CLK3	5
Vin	6
OUT36	7
OUT37	8
OUT38	9
OUT39	10
OUT40	11
OUT41	12
GND	13
OUT42	14
OUT43	15
OUT44	16
OUT45	17
OUT46	18
OUT47	19
GND	20
OUT48	21
OUT49	22
OUT50	23
OUT51	24
OUT52	25
OUT53	26

IDC26

	JP4
OT_A4	1
OT_B4	2
OT_OE4	3
OT_LA4	4
OT_CLK4	5
Vin	6
OUT54	7
OUT55	8
OUT56	9
OUT57	10
OUT58	11
OUT59	12
GND	13
OUT60	14
OUT61	15
OUT62	16
OUT63	17
OUT64	18
OUT65	19
GND	20
OUT66	21
OUT67	22
OUT68	23
OUT69	24
OUT70	25
OUT71	26

IDC26



**JH1 Definition:**

Definition	Pin	Pin	Definition
OUT_A1	1	2	OUT_B1
OUT_OE1	3	4	OUT_LA1
OUT_CLK1	5	6	VIN
OUT_0	7	8	OUT_1
OUT_2	9	10	OUT_3
OUT_4	11	12	OUT_5
GND	13	14	OUT_6
OUT_7	15	16	OUT_8
OUT_9	17	18	OUT_10
OUT_11	19	20	GND
OUT_12	21	22	OUT_13
OUT_14	23	24	OUT_15
OUT_16	25	26	OUT_17

**JH2 Definition:**

Definition	Pin	Pin	Definition
OUT_A2	1	2	OUT_B2
OUT_OE2	3	4	OUT_LA2
OUT_CLK2	5	6	VIN
OUT_18	7	8	OUT_19
OUT_20	9	10	OUT_21

OUT_22	11	12	OUT_23
GND	13	14	OUT_24
OUT_25	15	16	OUT_26
OUT_27	17	18	OUT_28
OUT_29	19	20	GND
OUT_30	21	22	OUT_31
OUT_32	23	24	OUT_33
OUT_34	25	26	OUT_35

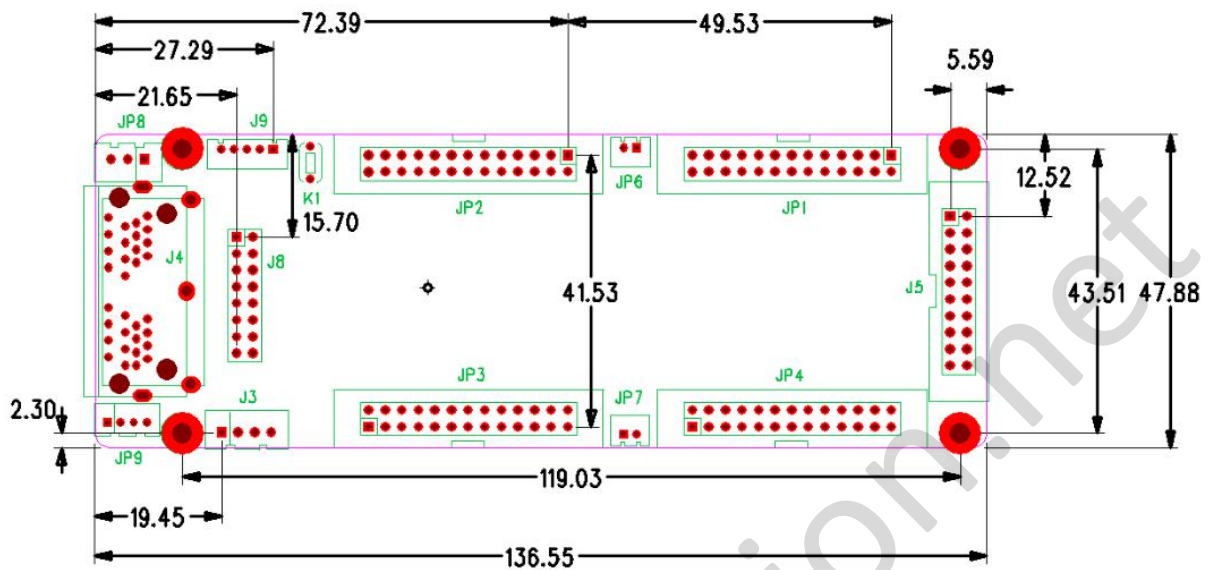
**JH2 Definition:**

Definition	Pin	Pin	Definition
OUT_A3	1	2	OUT_B3
OUT_OE3	3	4	OUT_LA3
OUT_CLK3	5	6	VIN
OUT_36	7	8	OUT_37
OUT_38	9	10	OUT_39
OUT_40	11	12	OUT_41
GND	13	14	OUT_42
OUT_43	15	16	OUT_44
OUT_45	17	18	OUT_46
OUT_47	19	20	GND
OUT_48	21	22	OUT_49
OUT_50	23	24	OUT_51
OUT_52	25	26	OUT_53

**JH2 Definition:**

Definition	Pin	Pin	Definition
OUT_A4	1	2	OUT_B4
OUT_OE4	3	4	OUT_LA4
OUT_CLK4	5	6	VIN
OUT_54	7	8	OUT_55
OUT_56	9	10	OUT_57
OUT_58	11	12	OUT_59
GND	13	14	OUT_60
OUT_61	15	16	OUT_62
OUT_63	17	18	OUT_64
OUT_65	19	20	GND
OUT_66	21	22	OUT_67
OUT_68	23	24	OUT_69
OUT_70	25	26	OUT_71

# Dimension and Connector Definition



## Other plug definitions:

### 1. J9 Definition

Pin	1	2	3	4	5
Definition	LEDG	3.3V	LEDR	KEYH	GND/KEY-

### 2. J8 Definition

Pin	2	4	6	8	10	12	14	16
Definition	A0-	B0-	C0-	D0-	A0-	B0-	C0-	D0-
Pin	1	3	5	7	9	11	13	15
Definition	A0+	B0+	C0+	D0+	A0+	B0+	C0+	D0+

### 3. J3 Definition

Pin	1	2	3	4
Definition	+5V	+5V	GND	GND

# Notes

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1. Please follow this instruction exactly.
2. Professionals are needed to install and test the product and has to be anti-static.
3. Keep away from water.

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