SYSOLUTION

Small spacing Receiving Card D70-320

Specification

Version：Ver.1.1

Statement

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Update

No.	Version	Update	Revise
1	Ver.1.0	Initial	2020.09.29
2	Ver.1.1	Parameter Modifier	2020.11.11

Note : This document is subject to change without prior notice.

Product Brief Introduction

D70-320 is a small spacing receiving card introduced by Xixun,which uses 8 standard Hub320 (26 Pin) interfaces, and supports 32 groups of RGB parallel data at most. Carrying up to 256*512 pixels, with strong processing power, super stable performance and super cost- effective.

Product feature

1. Mcu design, improve the flexibility of product application.

2. Supports power supply voltage and temperature detection.

3. Supports online hardware reset.

4. The function of reading module information.

5. Strong driver chip compatibility.

Application scenarios

It can be widely used in high density and small spacing display field, and has significant advantages in command center,   monitoring center, large conference, TV broadcast, hotel exhibition project and other application scenarios.

Product Appearance
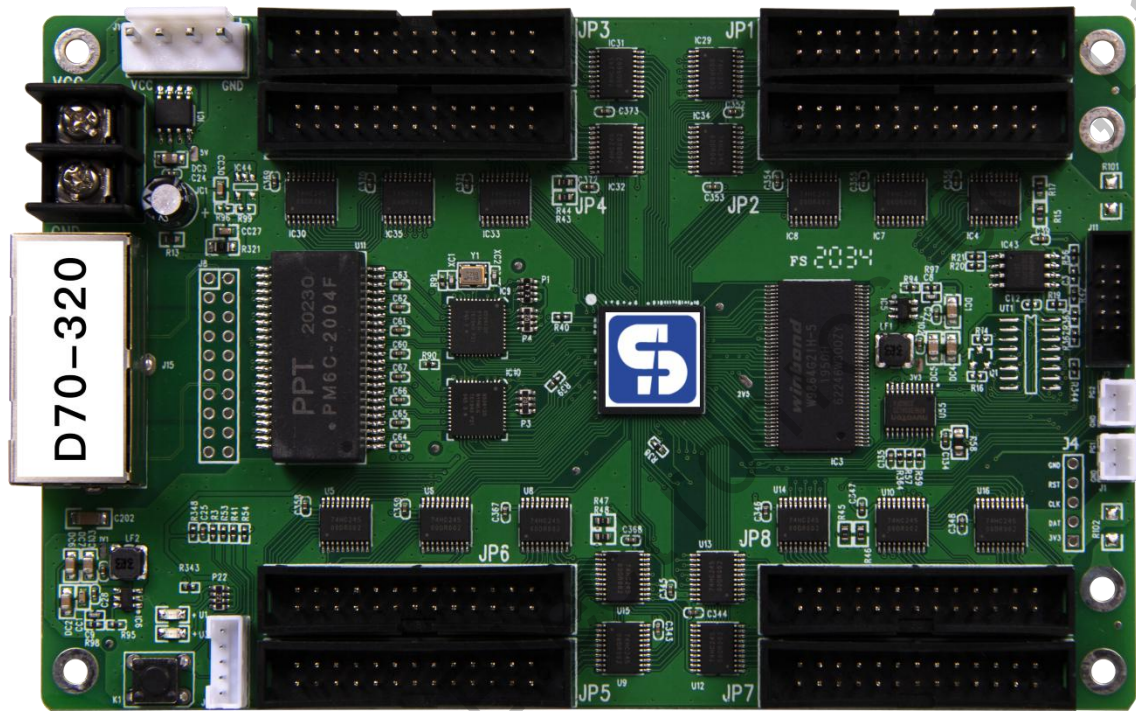
On Load Capacity

Three line in (RGB)	Maxi load (pix)	Brightness correction with load (pix)	Chroma correction load (pix)
32 group	256*512	480*256	480*160

Number of expansion cards	support scan line		
< 200	1-64 scan		

Function Definition

| Function	Note
Improved display effect	a. Support a vatiety of display effect scheme：with LedSet 3.0 software to achieve refresh priority and gray priority effect. b. Support 90°multiple rotation of the screen : with LedSet3.0 software, it can rotate the screen of the receiving card by 90° multiple. c. Support screen zooming function: with LedSet 3.0 software, can be carried out multiple zooming of the receiving card loaded pixels, to achieve the display screen zooming in and out.
Improved operability	a. Receiving card serial number detection: with the network port debugging function in LedSet 3.0 software, the receiving card number and network port information will be displayed on the target box, so that user can know the positon number and connection line of the receiving card.

	b. Support data interface customization: with LedSet3.0 software, the output data of the receiving card can be detected and edited.
	c. Support complex box structure: In the advanced layout of LedSet3.0 software, the box module can be quickly arranged and constructed arbitrarily.
	d. Support to construct complex large screen: in LedSet3.0 software complex display connection, can quickly to the box arbitrary arrangement structure.
	e. Support to read module information(custom function): support to read the memory mdule information of the special chip with storage function adopted by the manufacturer, realize intelligent screen adjustment and intelligent management.
Hardware stability	a. Network cable loop backup: Network prots are cnnected through the active and standby network cables in loop mode to increase the reliability f receiving cards in series. In the active and standby series lines, when one of them fails,

	the other one can ensure the normal sidplay of the screen. b. Voltage detection : Detects the operating voltage of the receiving card. c. Temperature detection : Detects the operating temperature of the receiving card. d. Reset : After the online hardware upgrade is complete, the receiving card can restart the online hardware.
Software intelligence	a. Support to read back the configuration parameters of the receiving card:Ledset 3.0 can read back the configuration parameters of the current receiving card. b. Support network cable bit error rate detection: in Ledset 3.0 can onitr the n etwork cable communication signal quality connected by the hardware of the system in real time, in order to quickly judge the quality of the network cable, troubleshoot. c. Communicationn monitoring function : real-time monitoring of the receiving card on Ledset 3.0.

Output Port Definition

32 sets of parallel data interface definition
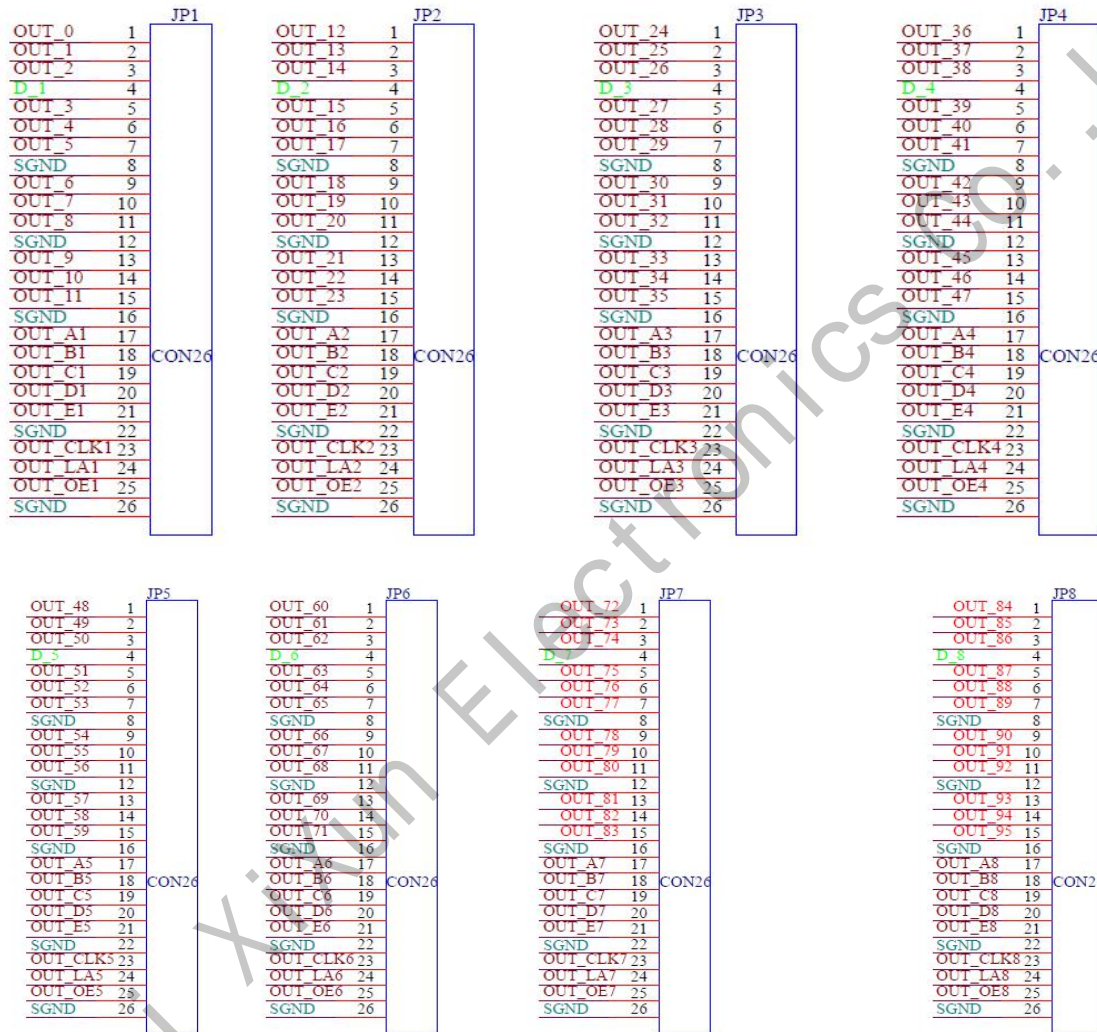
JP1-JP8 Data interface definition

Definition	Pin	Pin	Definition
R	1	2	G
B	3	4	D_x(Read the storage)
R	5	6	G

B	7	8	GND
R	9	10	G
B	11	12	GND
R	13	14	G
B	15	16	GND
OUT_A1	17	18	OUT_B1
OUT_C1	19	20	OUT_D1
OUT_E1	21	22	GND
OUT_CLK1	23	24	OUT_LA1
OUT_OE1	25	26	GND

J6 Interface definition

Pin	1	2	3	4
Definition	GND	SWCLK	SWDIO	+3.3V

J11 Interface definition

Definition	VBB	GND	FLS_CS	FLS_DO	FLS_CLK
Pin	1	2	3	4	5
Pin	10	9	8	7	6
Definition	VBB	GND	mCONF_DONE	PROGRAM_B	FLS_DI

J12 Indicator port definition

Pin	1	2	3	4	5
Definition	GND/KEY-	KEY+	LEDR-	VCC/LED+	LEDG-

J13 Power socket definition

Pin	1	2	3	4
Definition	VCC	VCC	GND	GND

Indicator Description

IndiIndicator	Location	Status	Note
Status indicator (green)	U6	slow flash	The receiving card works properly, the network cable is connected properly, and there is no DVI signal in put.
		Even flash	The receiving card works normally, the network cable is connected normally, and DVI signal is input.
		Often Off	No gigabit network signal
		Blink for three	The receiving card works normally, the network cable is connected normally, and DVI signal is input.
Status indicator (red)	U5	Often on	Power supply is normal

Dimension
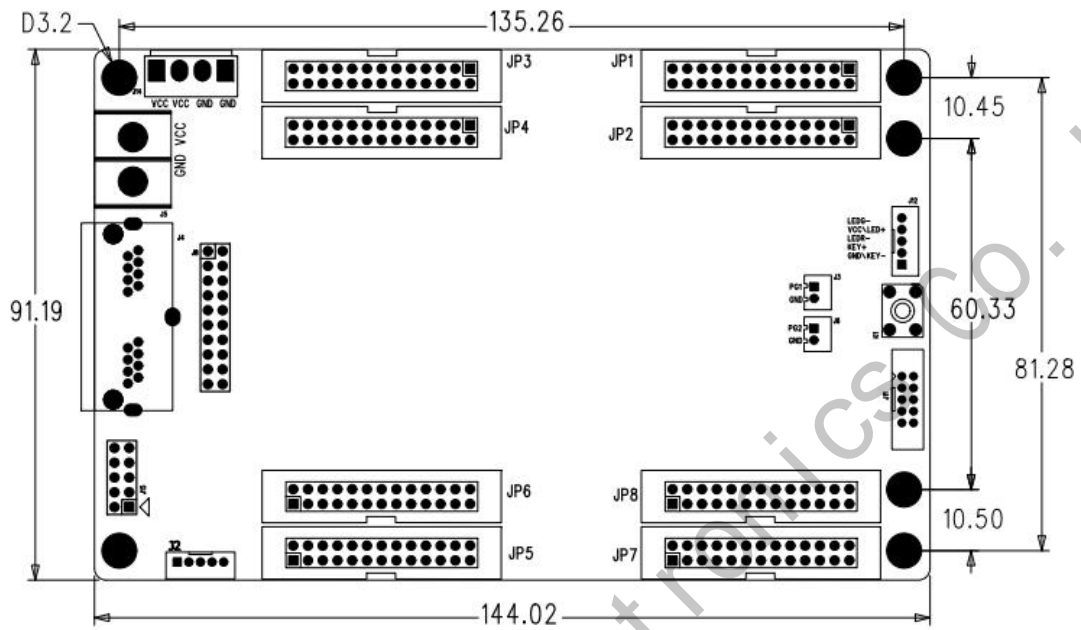
Uint：mm

Work Parameter

Electric parameter	Input voltage	DC3.5-5.5V
	Rated current	0.6A
	Rated power	3W
Work environment	Work temperature	-20℃ - 75℃
	Work humidity	10%RH-90%RH
Storage environment	Temperature	-25℃ ~ 125℃
Board card size	144.02mmX91.19mm	
Net weight	110g	
Authentication	Accord with RoHS standard 、Accord with CE-EMC	

Note

1. The installation process must be completed by professional personnel.

2. Static electricity must be prevented.

3. Pay attention to waterproof and dust removal.