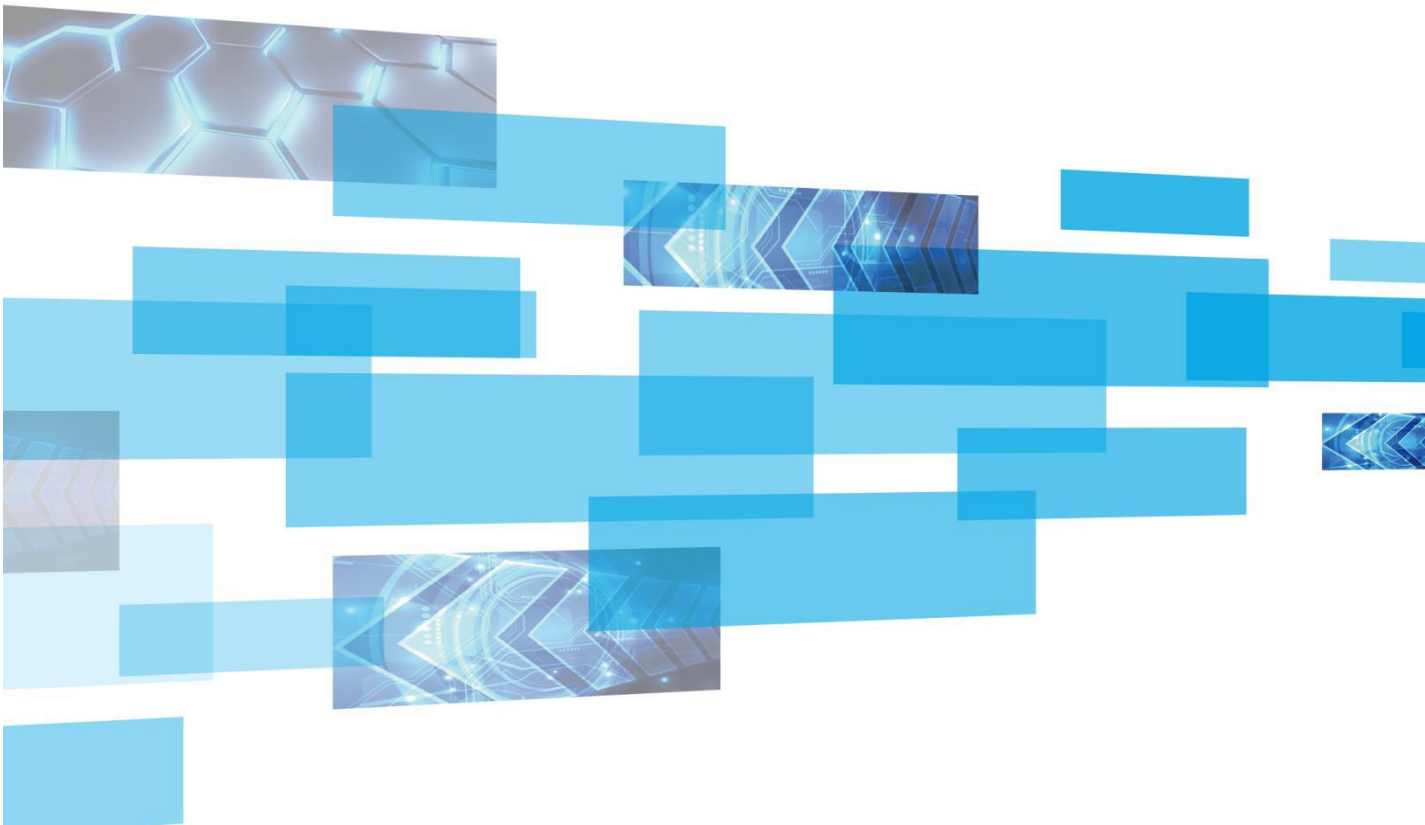


Full Function Receiving Card D70-B8S



Specification

Version: Ver.1.0

Statement

Dear user friend , thanks for choosing SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD(hereinafter referred to as Xixun Technology) as your LED advertising equipment control system. The main purpose of this document is to help you quickly understand and use the product. We strive to be precise and reliable when writing the document , and the content may be modified or changed at any time without notice.

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Update

No.	Version	Update	Revise
1	Ver.1.0	Initial	2020.09.29

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

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Product Introduction

D70-B8S is xixun technology launched a small size large load full function reception card; 120PIN high precision contact plug-in interface; Supports a maximum of 32 groups of RGB parallel data; Carrying up to 256X512 pixels; With strong processing power, super stable performance and super cost-effective.

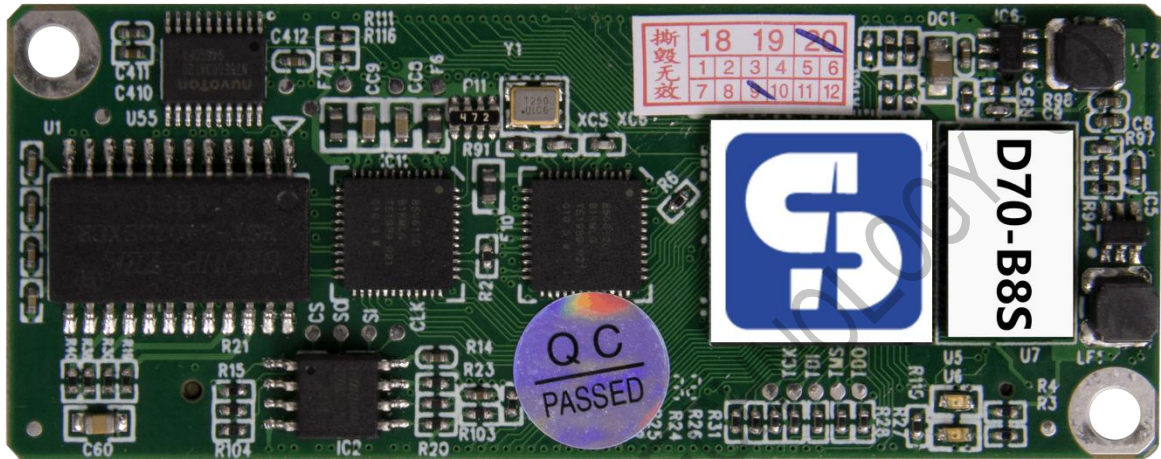
Product Features

- a. Small size and thickness are adopted to save space for the increasingly narrow box space and light spacing.
- b. High-density connector interface, dustproof and shockproof, with high stability and reliability.
- c. Supports dual-card backup to improve stability and reliability.
- d. Strong LED driver chip compatibility.

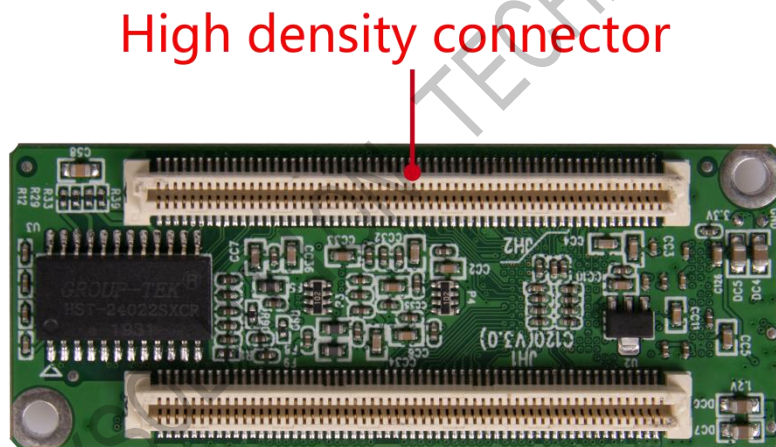
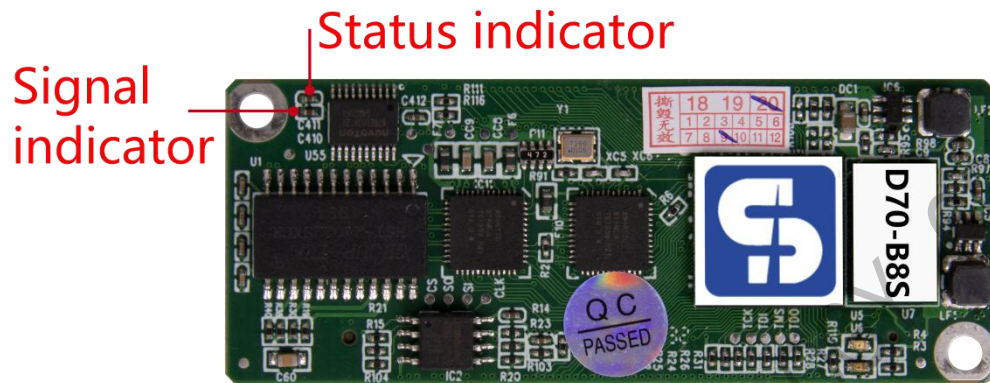
Application Scenarios

It can be widely used in the high-end display field with high requirements, and has significant advantages in the application scenarios of high-end engineering channel projects such as LED transparent screen, grille screen and coated LED screen.

Product Appearance



Interface Definition



On-Load Capacity

Three line in parallel (RGB)	Serial data	Maximum load (Pix)	Brightness correction load (Pix)	Chroma correction load (Pix)
32 Group	96 Group	256*512	510*256	510*160

Number of expansion cards	Support scan line		
≤1000PCS	1-64 Scan		

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Function Definition

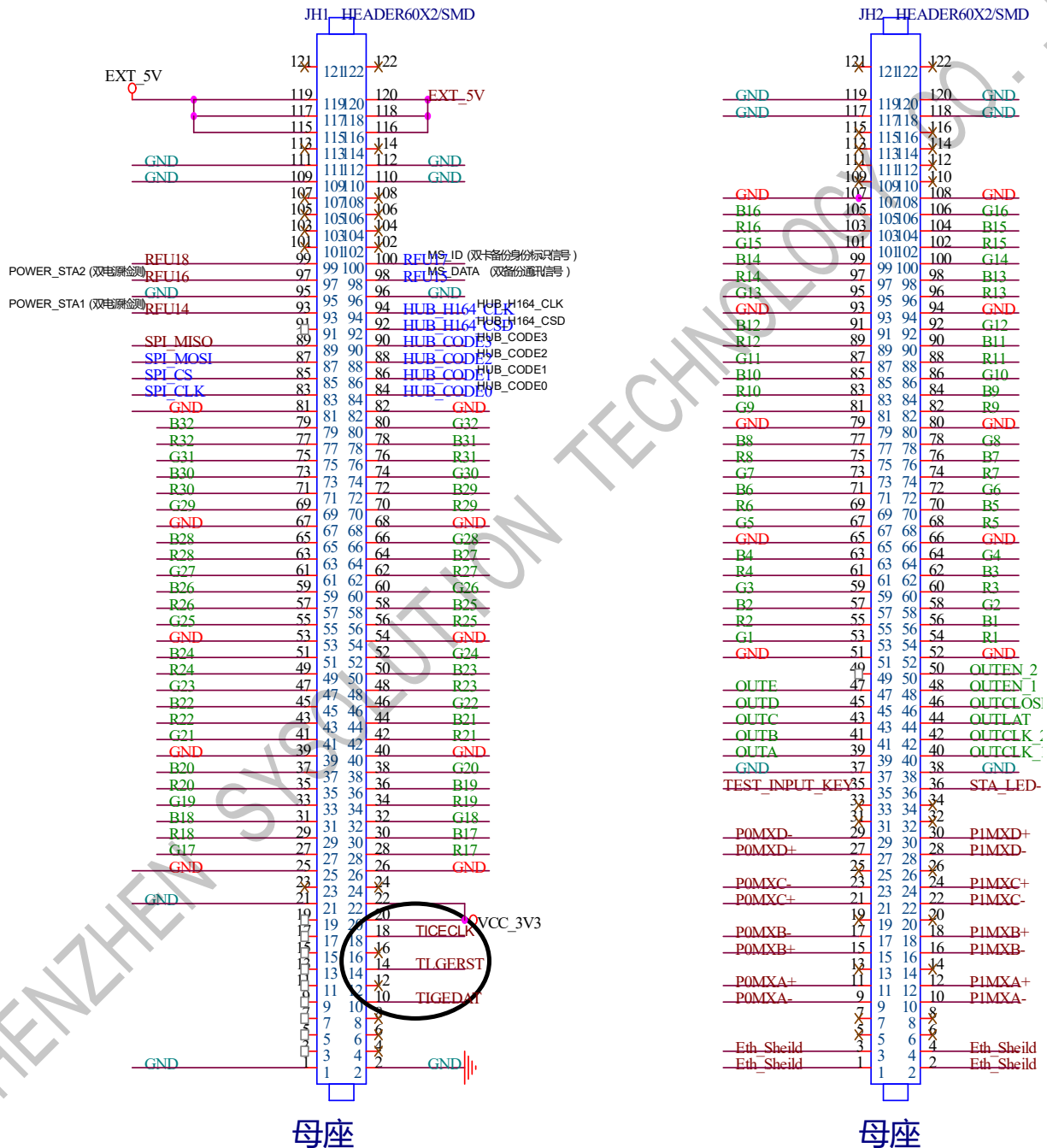
Function	Note	
Improved Display Effect	<ul style="list-style-type: none"> a. Support a variety of display effect scheme: with LedSet3.0 software to achieve refresh priority and gray priority effect. b. Support 90° multiple rotation of the screen: with LedSet3.0 software, it can rotate 920° multiple of the screen of the receiving card. c. Supporting screen zooming function: With LedSet3.0 software, it can zoom in and out the pixels on the receiving card to realize the zooming in and out of the display screen. 	
Improved Operability	<ul style="list-style-type: none"> a. Receiving card serial number detection: With the network port debugging function in LedSet3.0 software, the receiving card number and network port information will be displayed on the target box, so that the user can know the position 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. 	
Hardware Stability	Hot backup is supported	Network port hot backup: The network ports are connected through the active and standby network cables in a loop to increase the reliability of the receiving cards in series. In the active and standby series lines, when one of them fails, the other

		<p>one can ensure the normal display of the screen.</p>
		<p>Receiving card hot backup (customized) : The devices connected to receiving cards work in active/standby mode to improve device reliability. At any given time, only the active device is running. When the active device is faulty, the standby device works to ensure the normal display of the screen.</p>
<p>Software Intelligence</p>	<ul style="list-style-type: none"> a. Support to read back the configuration parameters of the receiving card: LedSet3.0 can read back the configuration parameters of the current receiving card. b. Support to read back the configuration parameters of the receiving card: LedSet3.0 can read back the configuration parameters of the current receiving card. c. Communication monitoring function: real-time monitoring of the receiving card on LedSet3.0. 	

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Output Interface Definition

32 Sets of parallel data interface definitions



JH1 Definition

Direction For Use	Definition	Pin	Pin	Definition	Directions For Use
	GND	1	2	GND	
Buy atc feet	NC	3	4	NC	Buy atc feet
	NC	5	6	NC	
	NC	7	8	NC	
	NC	9	10	TIGEDAT	/
	NC	11	12	NC	
	NC	13	14	TIGERST	/
	NC	15	16	NC	Buy atc feet
	NC	17	18	TICECLK	/
	NC	19	20	3.3V	
	GND	21	22	3.3V	
Buy atc feet	NC	23	24	NC	Buy atc feet
	GND	25	26	GND	
	G17	27	28	R17	
	R18	29	30	B17	
	B18	31	32	G18	
	G19	33	34	R19	
	R20	35	36	B19	
	B20	37	38	G20	
	GND	39	40	GND	
	G21	41	42	R21	
	R22	43	44	B21	
	B22	45	46	G22	
	G23	47	48	R23	
	R24	49	50	B23	
	B24	51	52	G24	
	GND	53	54	GND	
	G25	55	56	R25	
	R26	57	58	B25	
	B26	59	60	G26	
	G27	61	62	R27	
	R28	63	64	B27	
	B28	65	66	G28	
	GND	67	68	GND	
	G29	69	70	R29	

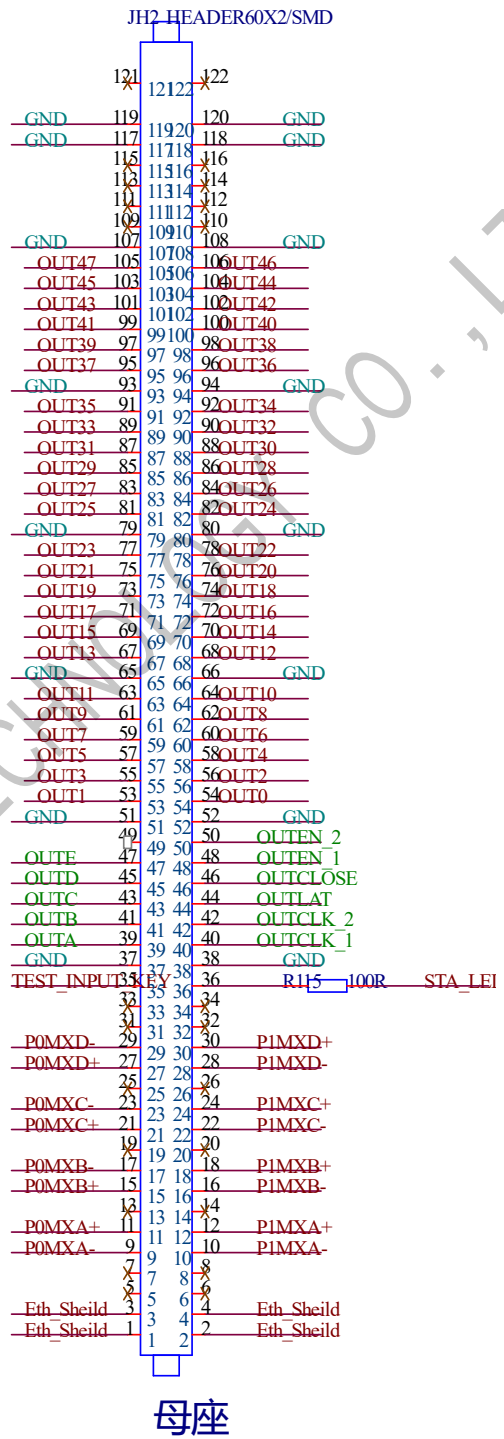
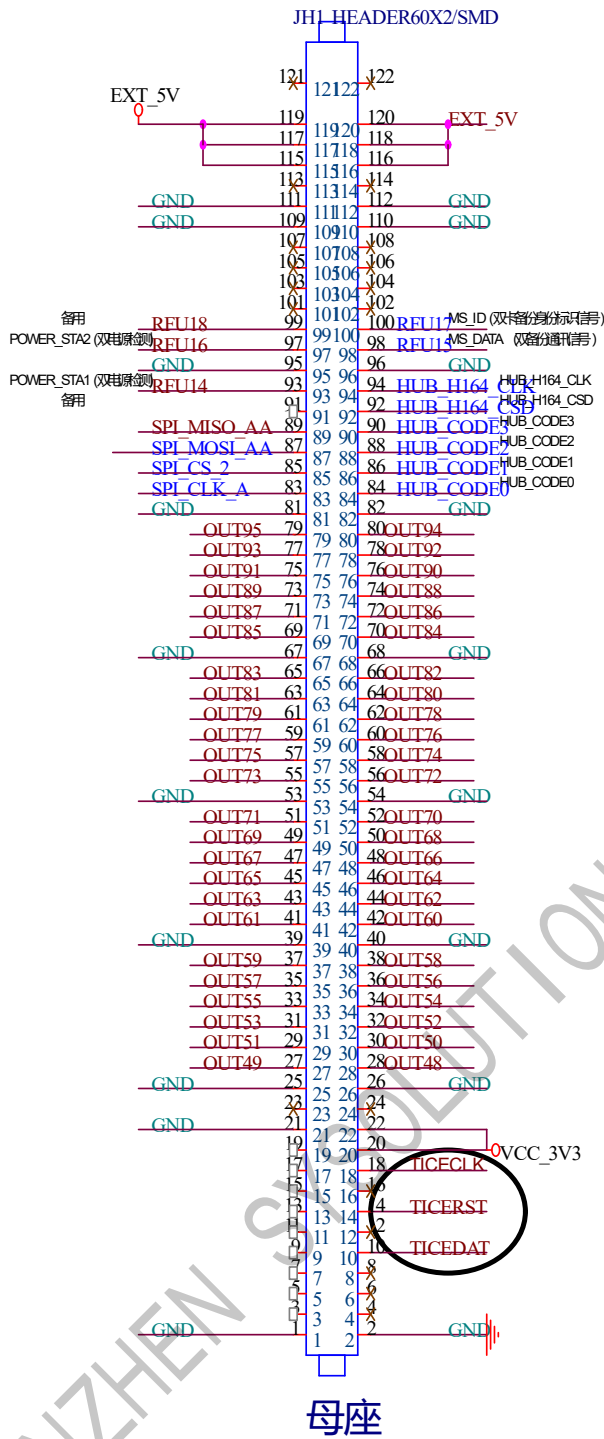
	R30	71	72	B29	
	B30	73	74	G30	
	G31	75	76	R31	
	R32	77	78	B31	
	B32	79	80	G32	
	GND	81	82	GND	
/	SPI ⁻ CLK	83	84	RFU3	/
/	SPI ⁻ CS	85	86	RFU5	/
/	SPI ⁻ MOSI	87	88	RFU7	/
/	SPI ⁻ MOS0	89	90	RFU9	/
Buy atc feet	NC	91	92	RFU11	/
/	RFU14	93	94	RFU13	/
	GND	95	96	GND	
/	RFU16	97	98	RFU15	Dual card backup identifier
/	RFU18	99	100	RFU17	Dual card backup identifier
Buy atc feet	NC	101	102	NC	Buy atc feet
	NC	103	104	NC	
	NC	105	106	NC	
	NC	107	108	NC	
	GND	109	110	GND	
	GND	111	112	GND	
Buy atc feet	NC	113	114	NC	Buy atc feet
	5V	115	116	5V	
	5V	117	118	5V	
	5V	119	120	5V	

JH2 Definition

Direction For Use	Definition	Pin	Pin	Definition	Direction For Use
Enclosure grounding	Eth_Sheild	1	2	Eth_Sheild	Enclosure grounding
	Eth_Sheild	3	4	Eth_Sheild	
Buy atc feet	NC	5	6	NC	Buy atc feet
	NC	7	8	NC	
Gigabit	P0mxa-	9	10	P1mxa-	Gigabit
	P0mxa+	11	12	P1mxa+	
Buy atc feet	NC	13	14	NC	Buy atc feet
Gigabit	P0mxb+	15	16	P1mxb-	Gigabit
	P0mxb-	17	18	P1mxb+	
Buy atc feet	NC	19	20	NC	Buy atc feet
Gigabit	P0mxc+	21	22	P1mxc-	Gigabit
	Pomxc-	23	24	P1mxc+	
Buy atc feet	NC	25	26	NC	Buy atc feet
Gigabit	Pomxd+	27	28	P1mxd-	Gigabit
	Pomxd-	29	30	P1mxd+	
Buy atc feet	NC	31	32	NC	Buy atc feet
	NC	33	34	NC	
Test button	TEST_INPUT_KEY	35	36	STA_LED	Long-distance indicator light (active low)
	GND	37	38	GND	
Line decoding signal	OUTA	39	40	OUTCLK ⁻ 1	The first shift clock output
	OUTB	41	42	OUTCLK ⁻ 2	The second shift clock output
	OUTC	43	44	OUTLAT	Latch signal output
	OUTD	45	46	OUTCLOSE	Blanking control signal
	OUTE	47	48	OUTEN_1	According to enable 1
Buy atc feet	NC	49	50	OUTEN_2	According to enable 2
	GND	51	52	GND	
	G1	53	54	R1	
	R2	55	56	B1	
	B2	57	58	G2	

	G3	59	60	R3	
	R4	61	62	B3	
	B4	63	64	G4	
	GND	65	66	GND	
	G5	67	68	R5	
	R6	69	70	B5	
	B6	71	72	G6	
	G7	73	74	R7	
	R8	75	76	B7	
	B8	77	78	G8	
	GND	79	80	GND	
	G9	81	82	R9	
	R10	83	84	B9	
	B10	85	86	G10	
	G11	87	88	R11	
	R12	89	90	B11	
	B12	91	92	G12	
	GND	93	94	GND	
	G13	95	96	R13	
	R14	97	98	B13	
	B14	99	100	G14	
	G15	101	102	R15	
	R16	103	104	B15	
	B16	105	106	G16	
	GND	107	108	GND	
Buy atc feet	NC	109	110	NC	Buy atc feet
	NC	111	112	NC	
	NC	113	114	NC	
	NC	115	116	NC	
	GND	117	118	GND	
	GND	119	120	GND	

96 Group serial line interface



JH1 Definition

Directions For Use	Definition	Pin	Pin	Definition	Directions For Use	
	GND	1	2	GND		
Buy atc feet	NC	3	4	NC	Buy atc feet	
	NC	5	6	NC		
	NC	7	8	NC		
		NC	9	10	TIGEDAT	/
		NC	11	12	NC	Buy atc feet
		NC	13	14	TIGERST	/
		NC	15	16	NC	Buy atc feet
		NC	17	18	TICECLK	/
		NC	19	20	GND	
		NC	21	22	NC	Buy atc feet
		NC	23	24	NC	
		GND	25	26	GND	
	Data50	27	28	Data49		
	Data52	29	30	Data51		
	Data54	31	32	Data53		
	Data56	33	34	Data55		
	Data58	35	36	Data57		
	Data60	37	38	Data59		
	GND	39	40	GND		
	Data62	41	42	Data61		
	Data64	43	44	Data63		
	Data66	45	46	Data65		
	Data68	47	48	Data67		
	Data70	49	50	Data69		
	Data72	51	52	Data71		
	GND	53	54	GND		
	Data74	55	56	Data73		
	Data76	57	58	Data75		
	Data78	59	60	Data77		
	Data80	61	62	Data79		
	Data82	63	64	Data81		
	Data84	65	66	Data83		
	GND	67	68	GND		
	Data86	69	70	Data85		

	Data88	71	72	Data87	
	Data90	73	74	Data89	
	Data92	75	76	Data91	
	Data94	77	78	Data93	
	Data96	79	80	Data95	
	GND	81	82	GND	
/	SPI CLK	83	84	HUB CODE0	/
/	SPI CS	85	86	HUB CODE1	/
/	SPI MOSI	87	88	HUB CODE2	/
/	SPI MISO	89	90	HUB CODE3	/
Buy atc feet	NC	91	92	HUB H164 CSD	/
/	RFU14	93	94	HUB H164 CLK	/
	GND	95	96	GND	
/	RFU16	97	98	RFU15	Dual card backup communication
/	RFU18	99	100	RFU17	Dual card backup identifier
Buy atc feet	NC	101	102	NC	Buy atc feet
	NC	103	104	NC	
	NC	105	106	NC	
	NC	107	108	NC	
	GND	109	110	GND	
	GND	111	112	GND	
Buy atc feet	NC	113	114	NC	Buy atc feet
	5V	115	116	5V	
	5V	117	118	5V	
	5V	119	120	5V	

JH2定义:

Directions For Use	Definition	Pin	Pin	Definition	Directions For Use
Earthing of casing	Eth_Sheild	1	2	Eth_Sheild	Earthing of casing
	Eth_Sheild	3	4	Eth_Sheild	
Buy atc feet	NC	5	6	NC	Buy atc feet
	NC	7	8	NC	
Gigabit	POMXA-	9	10	P1MXA-	Gigabit
	POMXA+	11	12	P1MXA+	
Buy atc feet	NC	13	14	NC	Buy atc feet
Gigabit	POMXB+	15	16	P1MXB-	Gigabit

	POMXB-	17	18	P1MXB+	
Buy atc feet	NC	19	20	NC	Buy atc feet
Gigabit	P0MXC+	21	22	P1MXC-	Gigabit
	P0MXC-	23	24	P1MXC+	
Buy atc feet	NC	25	26	NC	Buy atc feet
Gigabit	P0MXD+	27	28	P0MXD-	Gigabit
	P0MXD-	29	30	P0MXD+	
Buy atc feet	NC	31	32	NC	Buy atc feet
	NC	33	34	NC	
Test button	TEST INPUT KEY	35	36	STA LED-	Ong-distance indicator light (Active low)
	GND	37	38	GND	
Line decoding signal	OUTA	39	40	OUTCLK_1	The first shift clock output
	OUTB	41	42	OUTCLK_2	The second shift clock output
	OUTC	43	44	OUTLAT	Latch signal output
	OUTD	45	46	OUTCLOSE	Blacking control signal
	OUTE	47	48	OUTEN_1	Discription enable 1
Buy atc feet	NC	49	50	OUTEN_2	Discription enable 2
	GND	51	52	GND	
	Data2	53	54	Data1	
	Data4	55	56	Data2	
	Data6	57	58	Data5	
	Data8	59	60	Data7	
	Data10	61	62	Data9	
	Data12	63	64	Data11	
	GND	65	66	GND	
	Data14	67	68	Data13	
	Data16	69	70	Data15	
	Data18	71	72	Data17	
	Data20	73	74	Data19	
	Data22	75	76	Data21	
	Data24	77	78	Data23	
	GND	79	80	GND	
	Data26	81	82	Data25	

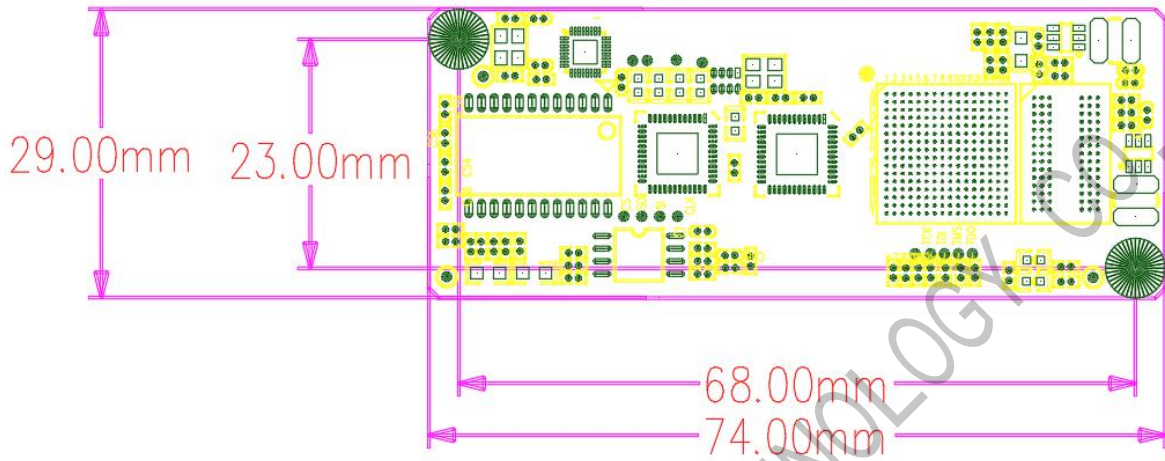
	Data28	83	84	Data27	
	Data30	85	86	Data29	
	Data32	87	88	Data31	
	Data34	89	90	Data33	
	Data36	91	92	Data35	
	GND	93	94	GND	
	Data38	95	96	Data37	
	Data40	97	98	Data39	
	Data42	99	100	Data41	
	Data44	101	102	Data43	
	Data46	103	104	Data45	
	Data48	105	106	Data47	
	GND	107	108	GND	
Buy atc feet	NC	109	110	NC	Buy atc feet
	NC	111	112	NC	
	NC	113	114	NC	
	NC	115	116	NC	
	GND	117	118	GND	
	GND	119	120	GND	

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Indicator Instruction

Indicator	Position	Status	Note
Status indicator (Green)	U6	Even slow flash	The receiving card works properly, the network cable is connected properly, and there is no DVI signal input.
		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 3 times at a time	The receiving card works normally, the network cable is connected, and DVI signal is input.
Status indicator (Red)	U5	Often on	Service voltage

Size Dimension



Unit: mm

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Work Parameter

Electric parameter	Input voltage	DC3.5-5.5V
	Rated current	0.6A
	Rated power	3W
Work environment	Work temperature	-20°C - 70°C
	Work humidity	10%RH-90%RH
Store environment	Temperature	-25°C ~ 125°C
Board size	74mmX29mm	
Net weight	12g	
Authentication information	Complies with RoHS standards and CE-EMC standards	

Note

- a. It must be used according to this usage requirement.
- b. Installation and commissioning must be done by professionals and must be esd preventive
- c. Waterproof and dust removal.

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