

# **i**5

## **Receiving Card**

Specification





#### Overview

i5 is a high-end receiving card developed for fine-pitch LED screens featuring a large load capacity and up to 32 parallel data groups or 32 serial data groups. Due to its small form factor, i5 is best fit into concise cabinets. With DDR2 SODIMM interface, it can be effortlessly integrated into the HUBs and the display modules, allows for flexible screen design.

i5 not only has all the functions of mainstream receiving cards, but also a series of practical and powerful features helping high-end displays to maximize video performance with stunning clarity.

#### **Features**

#### Display effect

- 8bit video source input.
- Color temperature adjustment.
- 240Hz frame rate.
- Better gray at low brightness.

#### Correction processing

• High precise per-pixel calibration in brightness and chromaticity.

#### Easy maintenance

- Highlight and OSD.
- Screen rotation.
- · Data group offset.
- Quick firmware upgrade and quick release of correction coefficients.

#### Stable and reliable

- Loop redundancy.
- Ethernet cable status monitoring.
- Firmware program redundancy and readback.
- 7×24h uninterrupted work.

Version: V2.1.2



## Feature details

Display effe	ect
01-:+	8bit color depth video source input and output, monochrome grayscale is 256,
8bit	can be matched with 16777216 kinds of mixed colors.
	Adaptive frame rate technology, not only supports 23.98/24/29.97/30/50/59.94/
Framo rato	60Hz regular and non-integer frame rates, but also outputs and displays
Frame rate	120/240Hz high frame rate pictures, which greatly improves picture fluency and
	reduces drag film. (Note: it will affect the load).
Color	Adjustment of color temperature, that is, saturation adjustment, to enhance the
temperature	expressiveness of the picture.
adjustment	expressiveness of the picture.
Better gray	By optimizing the gamma meter algorithm, the display screen can maintain the
at low	integrity and perfect display of gray scale when reducing the brightness, showing
brightness	the display effect of low brightness and high gray scale.
	8bit precision brightness and chromaticity correction point by point, which can
8bit	effectively eliminate the chromatic aberration of the lamp point, ensure the
calibration	uniformity and consistency of the color brightness of the entire screen, and
	improve the overall display effect.
Shortcut op	peration
	Using the control software, you can quickly mark the selected target cabinet,
Cabinet	display a flashing box on the front of the cabinet, and change the flashing
highlight	frequency of the cabinet indicator at the same time, which is convenient for front
	and rear maintenance.
	Using the control software, you can quickly mark the actual hardware connection
Quick OSD	serial number of the receiving card corresponding to the Ethernet port, which is
	convenient for setting the connection relationship of the screen.
Image	Single cabinet image to be rotated at 90°/180°/270° angles, and with part of the
rotation	main control, the single cabinet image can be rotated and displayed at any angle
Hardware r	nonitoring
Dit orror	It supports the detection of data transmission quality and error code between
Bit error detection	receiving cards, and can easily and quickly identify the cabinet with abnormal
detection	hardware connection, which is convenient for maintenance.
Redundanc	у
	The redundant Ethernet port is used to increase the connection with the
Loop	transmitting equipment and increase the reliability of cascading between
redundancy	equipment. When one circuit fails, it can realize seamless switching to the other
	circuit and ensure the normal display of the screen.
F:	It supports firmware program backup and can be upgraded safely. There is no
Firmware	need to worry about the loss of firmware program due to cable disconnection or
redundancy	power interruption during the upgrade process.

Version: V2.1.2



## **Basic parameters**

Control System Param	neters			
Cantual Auga	PWM chips: 512×384 pixels. Normal chips:512×256 pixels.			
Control Area	Shixin: 512×324 pixels.			
Ethernet Port Exchange	Supported, arbitrary use			
Grayscale	Up to 65536 grayscale.			
Display Module Comp	atibility			
Supported Chips	PWM chips, normal chips, Shixin chips			
Scan Type	Up to 1/128 scan			
Module Dimension	Up to 8192 pixels per data group.			
Cable Direction	Route from left to right, from right to left, from top to bottom, from bottom to top.			
Data Group	32 groups of parallel RGB data and 32 groups of serial RGB data, the later can be extended to 128 groups. Data groups can be exchanged freely.			
Data Folded	<ul> <li>Normal chips: 2~8 fold horizontally, 2~4 fold vertically.</li> <li>PWM and Shixin chips: horizontal or vertical 2~8 fold.</li> </ul>			
Module pumping point, row and column	Any pumping point and any pumping row and any pumping column			
Monitoring Function (	work with the module with corresponding sensor)			
Bit Error Monitoring	Monitor the total number of data packets and error packets to check network quality			
Pixel-to-Pixel Calibrat	ion			
Brightness Calibration	8bit			
Chromaticity Calibration	8bit			
Other features				
Redundancy	Loop redundancy and firmware redundancy.			
Optional functions	Shaped screen, etc.			



## Hardware

## **Appearance**



## Interface

S/N	Name	Function					
		Flashes once per second	Receiving card: normal.				
		riasiles office per second	Ethernet cable connection: normal.				
1	Signal	Flashes 10 times per second	Receiving card: normal.				
1	indicator	riasiles 10 tillles per second	Cabinet: Highlight.				
			Flackes 4 times per second	Receiving card: working with back up			
		Flashes 4 times per second	channel (Loop redundancy status).				
2	Power	Dod indicator always on the ne	ower supply is permal				
2	indicator	Red indicator always on: the power supply is normal.					
3	Gold finger	Used to connect with the HUB or unit board. From the diagram above, the					
3	interface	left side of the guide plate is first pin (Viewing from the front of card)					

<sup>\*</sup> i5 uses DDR2 SODIMM socket, please refer to the connector specification for details. The product photos in this article are for reference only.



## **Equipment Specifications**

Physical Specifications	
Hardware interface	DDR2 SODIMM socket
Ethernet port transmission rate	1Gb/s
Communication Distance	Recommended: CAT5e cable≤100m
Compatible with Transmission Equipment	Gigabit switch, Gigabit fiber converter, Gigabit fiber switch
Size <sup>1</sup>	L×W×H / 67.6mm (2.66") ×35.5mm (1.40") ×4.2mm (0.17")
Weight	9.5g / 0.02lbs, with heat sink.
Electrical specification	
Voltage	DC 3.8~5.5V,0.5A
Rated power	2.5W
Body Static Resistance	2KV
Operating environment	
Temperature	-25°C~75°C (-13°F~167°F)
Humidity	0%RH-80%RH, no condensation
Storage and transport en	vironment
Temperature	-40°C~125°C (-40°F~257°F)
Humidity	0%RH-90%RH, no condensation
Packing information	
Packaging rules	Standard blister box device, 6 cards per box, 600 cards per carton
Package size	W×H×D / 550.0mm (21.65") ×180.0mm (7.09") ×398.0mm (15.67"
Certification	
* RoHS certification, EMC Class A contact technical support for ass	certification, EMC needs to work with the cabinet design, please sistance.

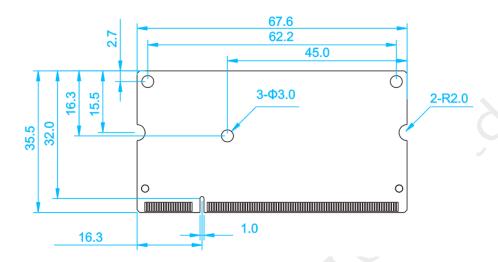
 $<sup>^{\</sup>scriptscriptstyle 1}\,$  Size and weight vary by manufacturing process.



#### **Reference dimensions**

Unit: mm

Tolerance: ±0.3mm



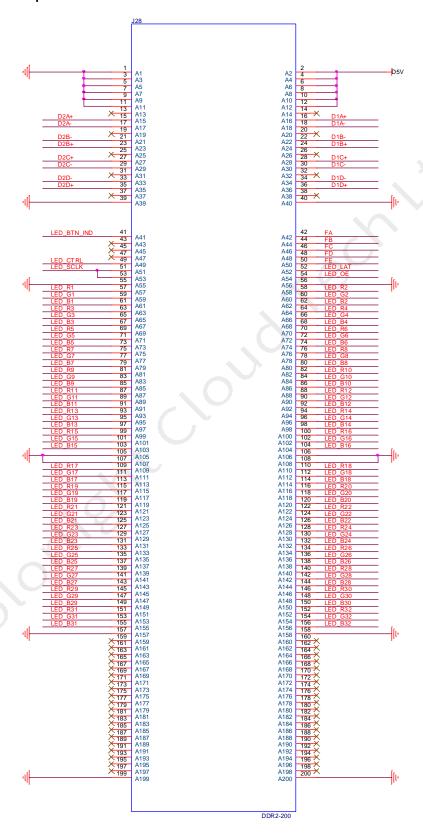
<sup>\*</sup>Studs are not recommended for further fixing.

<sup>\*</sup>If you need to use studs, please contact technical support.



## **Definition of Pins**

## 32 groups of parallel data interfaces





Instructions	Definition	Pin	No.	Definition	Instructions
	GND	1	2	D5V	
	GND	3	4	D5V	
	GND	5	6	D5V	
Ground connection	GND	7	8	D5V	Power supply
	GND	9	10	D5V	
	GND	11	12	D5V	
Empty	NC	13	14	NC	Empty
	D2A+	15	16	D1A+	
	D2A-	17	18	D1A-	
	NC	19	20	NC	
	D2B-	21	22	D1B-	
_	D2B+	23	24	D1B+	
Ethernet port 2	NC	25	26	NC	Ethernet port 1
signal pin	D2C+	27	28	D1C+	signal pin
	D2C-	29	30	D1C-	
	NC	31	32	NC	
	D2D-	33	34	D1D-	
	D2D+	35	36	D1D+	
Empty	NC	37	38	NC	Empty
Ground connection	GND	20	40	GND	Ground
Ground connection	GND	39	40	GND	connection
Indicator, reuse button	LED_BTN_IND	41	42	FA	
	NC	43	44	FB	Row decoding
Empty	NC	45	46	FC	signal
	NC	47	48	FD	
Blanking	LED_CTRL	49	50	FE	
		51	52	LED_LAT	Latch
Serial clock	LED_SCLK	53	54	LED_OE	Display enable, it is GCLK when the LED display use PWM chips
Ground connection	GND	55	56	GND	Ground connection
	LED_R1	57	58	LED_R2	
	LED_G1	59	60	LED_G2	
	LED_B1	61	62	LED_B2	
DCD acctions	LED_R3	63	64	LED_R4	DCD 4t
RGB output	LED_G3	65	66	LED_G4	RGB output
	LED_B3	67	68	LED_B4	
	LED_R5	69	70	LED_R6	
	LED_G5	71	72	LED_G6	



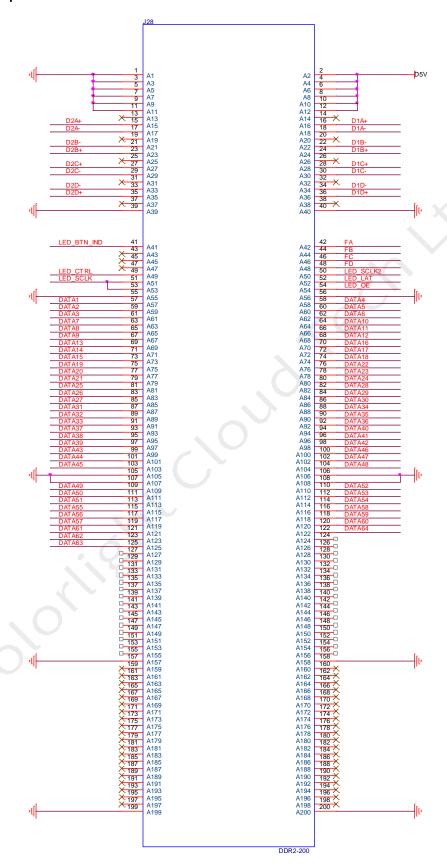
	LED_B5	73	74	LED_B6	
	LED_R7	75	76	LED_R8	
	LED_G7	77	78	LED_G8	
	LED_B7	79	80	LED_B8	
	LED_R9	81	82	LED_R10	
	LED_G9	83	84	LED_G10	
	LED_B9	85	86	LED_B10	
	LED_R11	87	88	 LED_R12	
	LED_G11	89	90	 LED_G12	
	LED_B11	91	92	 LED_B12	
	LED_R13	93	94	 LED_R14	
	LED_G13	95	96	 LED_G14	
	LED_B13	97	98	 LED_B14	
	LED_R15	99	100	LED_R16	
	LED_G15	101	102	LED_G16	
	LED_B15	103	104	LED_B16	
	GND	105	106	GND	Ground
Ground connection	GND	107	108	GND	connection
	LED_R17	109	110	LED_R18	
	LED_G17	111	112	LED_G18	
	LED_B17	113	114	LED_B18	
	LED_R19	115	116	LED_R20	
	LED_G19	117	118	LED_G20	
	LED_B19	119	120	LED_B20	
	LED_R21	121	122	LED_R22	
	LED_G21	123	124	LED_G22	
	LED_B21	125	126	LED_B22	
	LED_R23	127	128	LED_R24	
	LED_G23	129	130	LED_G24	
DCD output	LED_B23	131	132	LED_B24	DCB cutout
RGB output	LED_R25	133	134	LED_R26	RGB output
	LED_G25	135	136	LED_G26	
20	LED_B25	137	138	LED_B26	
	LED_R27	139	140	LED_R28	
	LED_G27	141	142	LED_G28	
	LED_B27	143	144	LED_B28	
	LED_R29	145	146	LED_R30	
	LED_G29	147	148	LED_G30	
	LED_B29	149	150	LED_B30	
	LED_R31	151	152	LED_R32	
	LED_G31	153	154	LED_G32	
	LED_B31	155	156	LED_B32	



Ground connection	GND	157	158	GND	Ground connection
	NC	159	160	NC	
	NC	161	162	NC	
	NC	163	164	NC	
	NC	165	166	NC	
	NC	167	168	NC	
	NC	169	170	NC	
	NC	171	172	NC	
Empty	NC	173	174	NC	
	NC	175	176	NC	Empty
	NC	177	178	NC	
	NC	179	180	NC	
	NC	181	182	NC	
	NC	183	184	NC	
	NC	185	186	NC	
	NC	187	188	NC	
	NC	189	190	NC	
	NC	191	192	NC	
	NC	193	194	NC	
	NC	195	196	NC	
	NC	197	198	NC	
Ground connection	GND	199	200	GND	Ground connection



## 32 groups of serial data interfaces





Instructions	Definition	Pin	No.	Definition	Instructions
	GND	1	2	D5V	
	GND	3	4	D5V	
C	GND	5	6	D5V	Danier annuali
Ground connection	GND	7	8	D5V	Power supply
	GND	9	10	D5V	
	GND	11	12	D5V	
Empty	NC	13	14	NC	Empty
	D2A+	15	16	D1A+	
	D2A-	17	18	D1A-	
	NC	19	20	NC	~ ()
	D2B-	21	22	D1B-	
Ethornot port 2	D2B+	23	24	D1B+	Ethornot port 1 signal
Ethernet port 2 signal pin	NC	25	26	NC	Ethernet port 1 signal pin
Signal pin	D2C+	27	28	D1C+	piii
	D2C-	29	30	D1C-	
	NC	31	32	NC	
	D2D-	33	34	D1D-	
	D2D+	35	36	D1D+	
Empty	NC	37	38	NC	Empty
Ground connection	GND	39	40	GND	Ground connection
Indicator, reuse button	LED_BTN_IND	41	42	FA	
	NC	43	44	FB	Row decoding signal
Empty	NC	45	46	FC	
1 7	NC	47	48	FD	
Blanking	LED_CTRL	49	50	LED_SCLK2	Serial clock 2
	. 60	51	52	LED_LAT	Latch
Serial clock 1	LED_SCLK	53	54	LED_OE	Display enable, it is GCLK when the LED display use PWM chips
Ground connection	GND	55	56	GND	Ground connection
<i>-</i> 0	DATA1	57	58	DATA4	
$C_{\alpha}$	DATA2	59	60	DATA5	
	DATA3	61	62	DATA6	•
	DATA7	63	64	DATA10	
	DATA8	65	66	DATA11	
RGB output	DATA9	67	68	DATA12	RGB output
	DATA13	69	70	DATA16	
	DATA14	71	72	DATA17	
	DATA15	73	74	DATA18	
	DATA19	75	76	DATA22	
	DATATA	13	- 10	DATAZZ	



DATA20 77 78 DATA23  DATA21 79 80 DATA24  DATA25 81 82 DATA28  DATA26 83 84 DATA29  DATA27 85 86 DATA30  DATA31 87 88 DATA34  DATA32 89 90 DATA35  DATA33 91 92 DATA36  DATA37 93 94 DATA40  DATA38 95 96 DATA41  DATA39 97 98 DATA42  DATA43 99 100 DATA46  DATA44 101 102 DATA46  DATA45 103 104 DATA48  GROD 105 106 GND  GROD 107 108 GND  GROD 107 108 GND  DATA49 109 110 DATA52  DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output  DATA56 117 118 DATA59  DATA61 131 13 DATA60		D.1.T.100		7.0	D. T. 1.00	
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DATA26 83 84 DATA29  DATA27 85 86 DATA30  DATA31 87 88 DATA34  DATA32 89 90 DATA35  DATA33 91 92 DATA36  DATA37 93 94 DATA40  DATA39 97 98 DATA42  DATA43 99 100 DATA46  DATA44 101 102 DATA47  DATA45 103 104 DATA48  Ground connection  GND 105 106 GND  GND 107 108 GND  GATA49 109 110 DATA52  DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output  RGB output  DATA56 117 118 DATA59  DATA57 119 120 DATA60						
DATA27 85 86 DATA30 DATA31 87 88 DATA34 DATA32 89 90 DATA35 DATA33 91 92 DATA36 DATA37 93 94 DATA40 DATA38 95 96 DATA41 DATA39 97 98 DATA42 DATA43 99 100 DATA46 DATA44 101 102 DATA47 DATA45 103 104 DATA48  Ground connection GND 105 106 GND Ground connection GND 107 108 GND GND 107 108 GND DATA49 109 110 DATA52 DATA50 111 112 DATA53 DATA51 113 114 DATA54 DATA55 115 116 DATA58 RGB output DATA56 117 118 DATA59 DATA60 TIP 118 DATA59						
DATA31 87 88 DATA34 DATA32 89 90 DATA35 DATA33 91 92 DATA36 DATA37 93 94 DATA40 DATA38 95 96 DATA41 DATA39 97 98 DATA42 DATA43 99 100 DATA46 DATA44 101 102 DATA47 DATA45 103 104 DATA48  GND 105 106 GND Ground connection GND 107 108 GND Ground connection DATA49 109 110 DATA52 DATA50 111 112 DATA53 DATA51 113 114 DATA54 DATA55 115 116 DATA58 RGB output DATA56 117 118 DATA59 DATA57 119 120 DATA60						
DATA32 89 90 DATA35  DATA33 91 92 DATA36  DATA37 93 94 DATA40  DATA38 95 96 DATA41  DATA39 97 98 DATA42  DATA43 99 100 DATA46  DATA44 101 102 DATA47  DATA45 103 104 DATA48  GND 105 106 GND Ground connection  GND 107 108 GND  DATA49 109 110 DATA52  DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output DATA56 117 118 DATA59  DATA57 119 120 DATA60		DATA27	85	86	DATA30	
DATA33 91 92 DATA36  DATA37 93 94 DATA40  DATA38 95 96 DATA41  DATA39 97 98 DATA42  DATA43 99 100 DATA46  DATA44 101 102 DATA47  DATA45 103 104 DATA48  GROD 105 106 GND Ground connection  GND 107 108 GND  DATA49 109 110 DATA52  DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output  RGB output  DATA56 117 118 DATA59  DATA57 119 120 DATA60		DATA31	87	88	DATA34	
DATA37 93 94 DATA40 DATA38 95 96 DATA41 DATA39 97 98 DATA42 DATA43 99 100 DATA46 DATA44 101 102 DATA47 DATA45 103 104 DATA48  Ground connection GND 105 106 GND GND 107 108 GND GND 107 108 GND DATA49 109 110 DATA52 DATA50 111 112 DATA53 DATA51 113 114 DATA54 DATA55 115 116 DATA58 RGB output DATA56 117 118 DATA59 DATA50 DATA57 119 120 DATA60		DATA32	89	90	DATA35	
DATA38 95 96 DATA41  DATA39 97 98 DATA42  DATA43 99 100 DATA46  DATA44 101 102 DATA47  DATA45 103 104 DATA48  GROD 105 106 GND  GND 107 108 GND  DATA49 109 110 DATA52  DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output DATA56 117 118 DATA59  DATA57 119 120 DATA60		DATA33	91	92	DATA36	
DATA39 97 98 DATA42 DATA43 99 100 DATA46 DATA44 101 102 DATA47 DATA45 103 104 DATA48  GROUND 105 106 GND GROUND 107 108 GND DATA49 109 110 DATA52 DATA50 111 112 DATA53 DATA51 113 114 DATA54 DATA55 115 116 DATA58 RGB output DATA56 117 118 DATA59 DATA57 119 120 DATA60		DATA37	93	94	DATA40	
DATA43 99 100 DATA46  DATA44 101 102 DATA47  DATA45 103 104 DATA48  GROD 105 106 GND  GND 107 108 GND  DATA49 109 110 DATA52  DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output DATA56 117 118 DATA59  DATA57 119 120 DATA60		DATA38	95	96	DATA41	
DATA44		DATA39	97	98	DATA42	X
DATA45   103   104   DATA48		DATA43	99	100	DATA46	
Ground connection         GND         105         106         GND         GND         Ground connection           DATA49         109         110         DATA52         DATA53         DATA50         111         112         DATA53         DATA51         113         114         DATA54         DATA55         RGB output         DATA55         115         116         DATA58         RGB output           RGB output         DATA56         117         118         DATA59         DATA60		DATA44	101	102	DATA47	
Ground connection         GND         107         108         GND         Ground connection           DATA49         109         110         DATA52         DATA52         DATA53         DATA53         DATA53         DATA54         DATA54         DATA55         113         114         DATA54         RGB output         RGB output           RGB output         DATA56         117         118         DATA59         DATA60         DATA60		DATA45	103	104	DATA48	
GND 107 108 GND  DATA49 109 110 DATA52  DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output DATA56 117 118 DATA59  DATA57 119 120 DATA60	_	GND	105	106	GND	
DATA50 111 112 DATA53  DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output DATA56 117 118 DATA59  DATA57 119 120 DATA60	Ground connection	GND	107	108	GND	Ground connection
DATA51 113 114 DATA54  DATA55 115 116 DATA58 RGB output  DATA56 117 118 DATA59  DATA57 119 120 DATA60		DATA49		110	DATA52	
DATA51 113 114 DATA54  DATA55 115 116 DATA58  RGB output  DATA56 117 118 DATA59  DATA57 119 120 DATA60		DATA50	111	112	DATA53	
RGB output DATA55 115 116 DATA58 RGB output DATA56 117 118 DATA59 DATA57 119 120 DATA60			113	114		
RGB output DATA56 117 118 DATA59 DATA57 119 120 DATA60	RGB output				<u> </u>	RGB output
DATA57 119 120 DATA60						
I DATANT I DATANA I		DATA61	121	122	DATA64	
DATA62 123 124 NC						
DATA63 125 126 NC						
NC 127 128 NC						
NC 129 130 NC						
NC 131 132 NC						
NC 133 134 NC						
NC 135 136 NC		V				
NC 137 138 NC						
NC 139 140 NC Empty	2 O					Empty
Empty NC 141 142 NC	Empty					
NC 143 144 NC						
NC 145 146 NC						
NC 147 148 NC						
NC 149 150 NC						
NC 151 152 NC						
NC 153 154 NC		NC		154	NC	
NC 155 156 NC		NC	155	156	NC	
Ground connection GND 157 158 GND Ground connection	Ground connection	GND	157	158	GND	Ground connection
NC 159 160 NC		NC	159	160	NC	

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NC NC	161 163	162	NC	
NC	162			
	102	164	NC	
NC	165	166	NC	
NC	167	168	NC	
NC	169	170	NC	
NC	171	172	NC	
NC	173	174	NC	
NC	175	176	NC	
NC	177	178	NC	
NC	179	180	NC	Empty
NC	181	182	NC	
NC	183	184	NC	
NC	185	186	NC	
NC	187	188	NC	
NC	189	190	NC	
NC	191	192	NC	
NC	193	194	NC	
NC	195	196	NC	
NC	197	198	NC	
GND	199	200	GND	Ground connection
	NC	NC     183       NC     185       NC     187       NC     189       NC     191       NC     193       NC     195       NC     197	NC     183     184       NC     185     186       NC     187     188       NC     189     190       NC     191     192       NC     193     194       NC     195     196       NC     197     198	NC       183       184       NC         NC       185       186       NC         NC       187       188       NC         NC       189       190       NC         NC       191       192       NC         NC       193       194       NC         NC       195       196       NC         NC       197       198       NC

<sup>\*</sup> FE and LED\_SCLK2 are signal multiplexing pins, which are used as row decoding signals in parallel data and as the second serial clock in serial data to achieve 128 sets of serial data expansion, DATA65~DATA128 correspond to multiplexing DATA1 Interface data for ~DATA64.

#### Statement

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