

K8

Receiving Card

Specification





Overview

K8 is a high-end receiving card developed for fine-pitch LED screens featuring large load capacity and up to 32 parallel data groups or 64 serial data groups. Due to its small form factor, K8 is best fit into concise cabinets. With high-density connectors, it can achieve dustproof and shockproof effect, result in its high stability and reliability.

K8 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. K8 can be perfectly used in high-end rentals as well as fine-pitch fix-installed LED screens.

Features

Display effect

- 8bit/10bit video source input.
- HDR.
- Low latency.
- Full gamma independent adjustment.
- Infi-bit color extension.
- Color temperature adjustment.
- Grayscale refinement.
- Better grayscale at low brightness.

Correction processing

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

Easy maintenance

- Seam correction.
- Highlight and OSD.
- Color gamut adjustment.
- Screen rotation.
- Prestore picture.
- Firmware upgrade without power restart.
- 8-way, up to 16 intelligent modules.
- Quick firmware upgrade and calibration coefficients download.
- Cabinet temperature, humidity, voltage and power monitoring.
- Irregular module, 4 modules with different wiring.



Stable and reliable

- Loop redundancy.
- Dual receiving card hot backup.
- PSU redundancy.
- Configuration parameter redundancy.
- Calibration coefficient redundancy.
- Firmware redundancy and readback.
- Ethernet cable status monitoring.
- 7×24h uninterrupted work.

Feature details

Display effect	
10bit	Maximum 10bit color depth video input and output, it presents a grayscale 4 times the normal 8bit video source, which offers smoother screen grayscale transition.
HDR	Presenting images with high dynamic range, high contrast and wide color gamut.
High frame rate	Supports not only conventional and non-integer frame rates such as 23.98/24/29.97/30/50/59.94/60Hz, but also outputs and displays 120/144/240Hz high frame rate images, greatly improving picture smoothness and reducing smearing (This feature affects the load capacity).
14bit calibration	Supports the 14bit calibration coefficients, and real-time processing of the calibration coefficient according to the actual playback content to improve the uniformity and consistency of the screen body at different gray levels.
Infi-bit	The low gray level of the fine-pitch cabinet is independently calibrated, to solve the problem that such cabinet is prone to presenting low gray color bands and level unevenness with conventional calibration.
Grayscale refinement	With the use of a luminance meter, the actual screen display conditions are measured, and the screen grayscale can be accurately calibrated, which perfectly solves the gray level jitters and low gray color cast caused by the hardware.
Shortcuts	
Cabinet highlight	Using the control software, you can quickly mark the selected target cabinet, display a flashing box on the front of the cabinet, and change the flashing frequency of the cabinet indicator at the same time, which is convenient for front and rear maintenance.
Quick OSD	Using the control software, you can quickly mark the actual hardware connection serial number of the receiving card corresponding to the Ethernet port, which is convenient for setting the connection relationship of the screen.

Version: V1.0.2



Seam correction	Quickly and efficiently eliminate the perceptible bright and dark lines caused by physical screen splicing. It can be used repeatedly in rental scenarios, thanks to its advanced one-click reset feature.						
Color adjustment	Using the control software, you can easily realize the color gamut adjustment and transformation of a single cabinet or screen, support custom adjustment and one-key restoration, and cooperate with the photometer to achieve high precision color restoration, which can meet the needs of different scenes.						
Image rotation	Single cabinet image to be rotated at 90°/180°/270° angles, and with part of the main control, the image can be rotated and displayed at any angle.						
Prestore picture	Customize the content played on the display screen when power on and no video signal.						
Irregular module	It supports 4 modules with different wiring, which is convenient for users to use irregular module. Restriction: -1 scan (including cascade) supports maximum 1024 pixels sand the scan lines in the same data group must be consistentWhen using 1~2 types of routing tables, a single set of data sets supports a maximum of 1024 pixels per scanwhen using 3~4 types of routing tables, a single set of data sets supports a maximum of 512 pixels per scan.						
Hardware mon	itoring						
Bit error rate detection	Detecting data transmission quality and error code between receiving cards can easily and quickly identify the cabinet with abnormal connection, easy to maintain.						
Temperature monitoring	It can monitor cabinet temperature, not only can send back to the upper equipment in real time, but also can view on the software, which easily customized high temperature warning.						
Humidity monitoring	It supports cabinet humidity monitoring (needs to work with the cabinet design), the result can be sent back to the upper equipment in real time, can be viewed on the software, and supports customized humidity abnormality reminders.						
Power supply monitoring	It supports the monitoring of 2-way power supply of the cabinet (needs to work with the cabinet design), the result can be sent back to the upper equipment in real time not only view the feedback on the software, also receive the reminder of abnormal power status. The power supply voltage needs to be divided to 3.3V before connected.						
Voltage monitoring	Supports the monitoring of the power supply voltage of the cabinet (needs to work with the cabinet design), which can be sent back to the upper equipment in real time, and can monitor the voltage status of 2-way of power supply at the same time, and support the software to check the voltage monitoring value. Support the monitoring of the power supply voltage of the						



	receiving card, which can be returned to the computer in real time, and support the software to check the voltage value.
Pixel-by-pixel monitoring	It supports pixel-by-pixel monitoring of the cabinet (needs to work with the cabinet design), the feedback not only can be sent back to the upper equipment in real time, also can be viewed via software, which offers the reminder of too many dead pixels on the LED board.
Fan control	Support cabinet fan control (requires cabinet design), the fan switch can be set through the control software, and the fan start or speed control can be automatically controlled with temperature monitoring.
LCD monitoring	Control cabinet LCD screen display, support temperature, voltage and running time and other status information display, support no-signal button self-test.
Redundancy	
Loop redundancy	The receiving cards and the sending card form a loop via the primary and backup line connections. When a fault occurs at a location of the lines, the screen can still display the image normally.
Receiving card hot backup	Two receiving cards connect to the HUB board to control a single cabinet at the same time. When the main receiving card is abnormal, the backup card will take over the display immediately.
Firmware redundancy	It supports firmware program backup and can be upgraded safely without worrying the loss of firmware program due to cable disconnection or power interruption during the upgrade process.
Configuration parameter redundancy	Save two sets of configuration parameters on the receiving card through the LEDVISION debugging software, one of which is used as a backup parameter.
Calibration coefficient redundancy	The calibration coefficient is stored both in the factory area and user area of the receiving card simultaneously. The coefficient in the user area is used by default, but users can restore the calibration coefficient from the factory area to the user area at any time.

Basic parameters

Control System Parameters				
Control Area Maximum 512x384 pixels. ¹				
Ethernet Port Exchange	Exchange Arbitrary use.			
Grayscale Up to 65536 grayscale.				
Display Module Compatibility				
Chip PWM chips.				

 $^{^{1} \ \, \}text{The load capacity may vary on some feature enabled. Please contact Colorlight technical for support.}$

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Version: V1.0.2

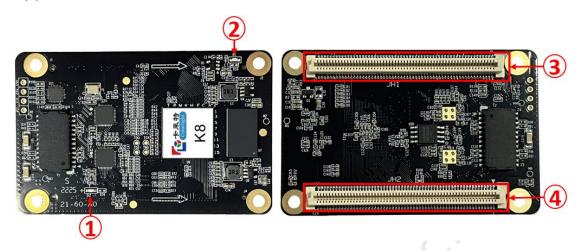


Scan Type	Support up to 1 / 128 scan.					
Module Specifications Supported	Maximum 1024 pixels 1 scan (including cascade).					
Cable Direction	Route from left to right, from right to left, from top to bottom, from bottom to top.					
Data Group	32 groups of parallel RGB full color data and 128 groups of serial RGB data and data groups can be exchanged freely.					
Data Folded	Horizontal or vertical 2~12 folds.					
Module pumping point, row	Support any pumping point and any pumping row and any					
and column	pumping column.					
Monitoring Function (wo	ork with the monitoring module)					
Temperature Monitoring	Temperature of receiving cards: between -25°C~75°C, no need for peripherals. 1 port for each card.					
Humidity Monitoring	Humidity of receiving cards: between 20%~95%RH. 1 port for each card.					
Power Supply Monitoring	Monitoring the working status of the power supply. 2 ports for each card. The power supply voltage needs to be divided to 3.3V before connected.					
Voltage Monitoring	Monitoring the voltage of the power supply. 2 ports for each card. Monitoring receiving card's own voltage, no need for peripherals.					
Net cable Monitoring	Operating total number of packets, error packets and network quality.					
Pixel-to-Pixel Calibration						
Brightness Calibration	Up to 14bit calibration accuracy.					
Chromaticity Calibration	Up to 14bit calibration accuracy.					
Other features						
Redundancy	Loop redundancy, receiving card redundancy, PSU redundancy, firmware redundancy and configuration parameter redundancy and calibration coefficient redundancy.					
Optional functions Cabinet LCD display, temperature control relay, moduli irregular screen design etc.						



Hardware

Appearance



Interface

S/N	Name	Function					
		Flashes once per second Flashes 10 times	Receiving card: normal working. Ethernet cable connection: normal. Receiving card: normal working.				
1	Signal indicator	per second Flashes 4 times	Cabinet: Highlight. Receiving card: back up sender cards (Loop				
		per second	redundancy status).				
2	Power indicator	The red indicator constant on means the power supply is normal.					
3	High-density connector JH1	Connect with the display's HUB or module. See below for pin definition.					
4	High-density connector JH2	Connect with the display's HUB or module. See below for pin definition.					

^{*} K8 uses high-density connectors, please refer to the connector specification for details. The product photos in this article are for reference only, please refer to the actual product.

Equipment Specifications

Physical Specifications						
Hardware interface	High-density connectors					
Ethernet port transmission rate	1 Gb/s					
Communication Distance	Recommended: CAT5e cable≤100 m					
Compatible with Transmission	Gigabit switch, Gigabit fiber converter, Gigabit fiber switch					
Equipment	digabit switch, digabit liber converter, digabit liber switch					
Size	L×W×H / 70.0mm(2.8")× 45.0mm(1.8")×7.8mm(0.3")					

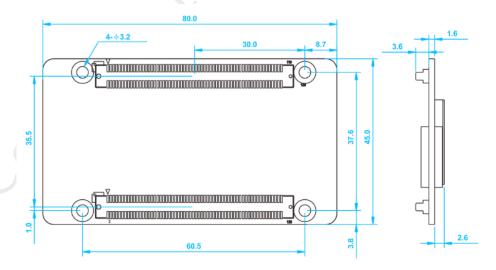


Net weight	29g (0.06lbs)					
Electrical specification						
Power input	DC 3.8~5.5V, 0.5A					
Rated power	2.5W					
Body Static Resistance	2KV					
Operating environment						
Temperature	-25°C~75°C (-13°F~167°F)					
Humidity	0%RH-80%RH, no-condensing					
Storage environment						
Temperature	-40°C~125°C (-40°F~257°F)					
Humidity	0%RH-90%RH, no-condensing					
Packing information						
Docking rules	Standard blister box device, 4 cards per box, 400 cards per					
Packing rules	carton.					
Packing size	L×W×H/550.0mm(21.9") ×398.0mm(15.7")×180.0mm (7.1")					
Certification						
* RoHS certification, EMC Class A certification, EMC needs to work with the cabinet design, please						
contact technical support for assistance.						

Reference dimensions

Unit: mm

Tolerance: ±0.3mm

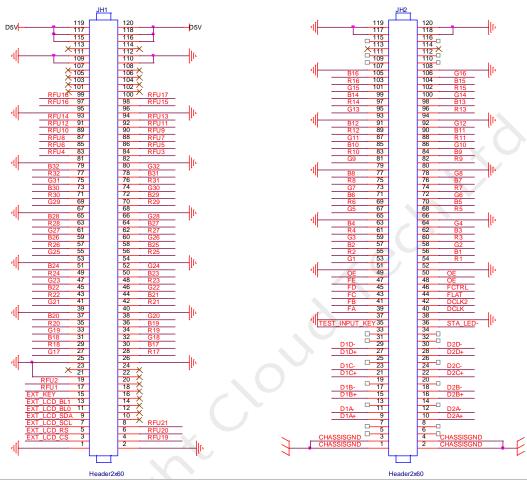


^{*} The distance between outer surfaces of the K8 and HUB boards after their high-density connectors fit together is 5.0mm. A 5-mm copper pillar is recommended.



Definition of Pins

32 groups of parallel data interfaces



JH1							
Instructions	Definition	Pin No.		Definition	Instructions		
Ground connection	GND	1	2	GND	Ground connection		
	EXT_LCD_CS	3	4	RFU19			
-0	EXT_LCD_RS	5	6	RFU20	Reserved		
	EXT_LCD_SCL	7	8	RFU21			
LCD screen interface	EXT_LCD_SDA	9	10	NC			
interface	EXT_LCD_BL0	11	12	NC			
	EXT_LCD_BL1	13	14	NC			
	EXT_KEY	15	16	NC	Empty		
MCU Reserved	RFU1	17	18	NC			
	RFU2	19	20	NC			
Ground connection	GND	21	22	NC			



Empty	NC	23	24	NC	
Ground connection	GND	25	26	GND	Ground connection
	LED_G17	27	28	LED_R17	
	LED_R18	29	30	LED_B17	
DCDtt	LED_B18	31	32	LED_G18	DCD systematic
RGB output	LED_G19	33	34	LED_R19	RGB output
	LED_R20	35	36	LED_B19	
	LED_B20	37	38	LED_G20	
Ground connection	GND	39	40	GND	Ground connection
	LED_G21	41	42	LED_R21	. 0
	LED_R22	43	44	LED_B21	
DCDtt	LED_B22	45	46	LED_G22	DCD andrest
RGB output	LED_G23	47	48	LED_R23	RGB output
	LED_R24	49	50	LED_B23	
	LED_B24	51	52	LED_G24	
Ground connection	GND	53	54	GND	Ground connection
	LED_G25	55	56	LED_R25	
	LED_R26	57	58	LED_B25	RGB output
PCR output	LED_B26	59	60	LED_G26	
RGB output	LED_G27	61	62	LED_R27	
	LED_R28	63	64	LED_B27	
	LED_B28	65	66	LED_G28	
Ground connection	GND	67	68	GND	Ground connection
	LED_G29	69	70	LED_R29	
	LED_R30	71	72	LED_B29	
RGB output	LED_B30	73	74	LED_G30	DCP output
KGB output	LED_G31	75	76	LED_R31	RGB output
(0)	LED_R32	77	78	LED_B31	
	LED_B32	79	80	LED_G32	
Ground connection	GND	81	82	GND	Ground connection
	RFU4	83	84	RFU3	
Reserved	RFU6	85	86	RFU5	
ivezei ven	RFU8	87	88	RFU7	Reserved
	RFU10	89	90	RFU9	vezei vea
MCU Reserved	RFU12	91	92	RFU11	
Reserved	RFU14	93	94	RFU13	
Ground connection	GND	95	96	GND	Ground connection
Posonyod	RFU16	97	98	RFU15	Reserved
Reserved	RFU18	99	100	RFU17	ivezei ven



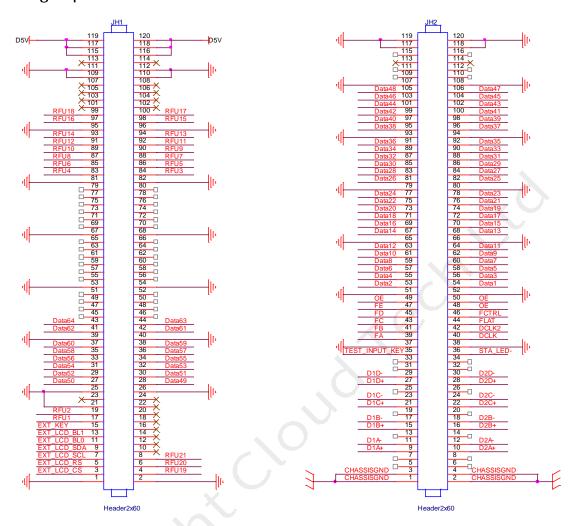
	NC	101	102	NC	
	NC	103	104	NC	
Empty	NC	105	106	NC	Empty
	NC	107	108	NC	
	GND	109	110	GND	
Ground connection	GND	111	112	GND	Ground connection
Empty	NC	113	114	NC	Empty
	D5V	115	116	D5V	
Power supply	D5V	117	118	D5V	Power supply
	D5V	119	120	D5V	.0
		JI	H2		
Instructions	Definition	Pin	No.	Definition	Instructions
	CHASSISGND	1	2	CHASSISGND	
Chassis ground	CHASSISGND	3	4	CHASSISGND	Chassis ground
_	NC	5	6	NC	_
Empty	NC	7	8	NC	Empty
	D1A+	9	10	D2A+	
	D1A-	11	12	D2A-	
	NC	13	14	NC	
	D1B+	15	16	D2B+	
	D1B-	17	18	D2B-	
Ethernet port 1	NC	19	20	NC	Ethernet port 2
signal pin	D1C+	21	22	D2C+	signal pin
	D1C-	23	24	D2C-	
	NC	25	26	NC	
	D1D+	27	28	D2D+	
	D1D-	29	30	D2D-	
Empty	NC	31	32	NC	Empty
ЕШРІУ	NC	33	34	NC	Empty
Test button	TEST_ INPUT_KEY	35	36	STA_LED-	Status LED
Ground connection	GND	37	38	GND	Ground connection
	FA	39	40	DCLK	First data serial clock
Row decoding	FB	41	42	DCLK2	Second data serial clock
signal	FC	43	44	FLAT	Latch
	FD	45	46	FCTRL	Blanking
	FE	47	48	OE	Display enable



Display enable	OE	49	50	OE	
Ground connection	GND	51	52	GND	Ground connection
	LED_G1	53	54	LED_R1	
	LED_R2	55	56	LED_B1	
DCD output	LED_B2	57	58	LED_G2	RGB output
RGB output	LED_G3	59	60	LED_R3	NOB output
	LED_R4	61	62	LED_B3	
	LED_B4	63	64	LED_G4	
Ground connection	GND	65	66	GND	Ground connection
	LED_G5	67	68	LED_R5	^ O
	LED_R6	69	70	LED_B5	
RGB output	LED_B6	71	72	LED_G6	RGB output
KGB Output	LED_G7	73	74	LED_R7	Roboutput
	LED_R8	75	76	LED_B7	
	LED_B8	77	78	LED_G8	
Ground connection	GND	79	80	GND	Ground connection
	LED_G9	81	82	LED_R9	RGB output
	LED_R10	83	84	LED_B9	
RGB output	LED_B10	85	86	LED_G10	
KGB Output	LED_G11	87	88	LED_R11	
	LED_R12	89	90	LED_B11	
	LED_B12	91	92	LED_G12	
Ground connection	GND	93	94	GND	Ground connection
	LED_G13	95	96	LED_R13	
	LED_R14	97	98	LED_B13	
RGB output	LED_B14	99	100	LED_G14	RGB output
KGB Output	LED_G15	101	102	LED_R15	Koboutput
(0)	LED_R16	103	104	LED_B15	
	LED_B16	105	106	LED_G16	
Ground connection	GND	107	108	GND	Ground connection
	NC	109	110	NC	
Empty	NC	111	112	NC	Empty
Ешріу	NC	113	114	NC	Empty
	NC	115	116	NC	
Ground connection	GND	117	118	GND	Ground connection
Ground connection	GND	119	120	GND	Ground connection



128 groups of serial data interfaces



JH1					
Instructions	Definition	Pin	No.	Definition	Instructions
Ground connection	GND	1	2	GND	Ground connection
	EXT_LCD_CS	3	4	RFU19	Reserved
	EXT_LCD_RS	5	6	RFU20	
LCD screen interface	EXT_LCD_SCL	7	8	RFU21	
	EXT_LCD_SDA	9	10	NC	
	EXT_LCD_BL0	11	12	NC	
	EXT_LCD_BL1	13	14	NC	
	EXT_KEY	15	16	NC	Franctis
MCU Reserved	RFU1	17	18	NC	Empty
	RFU2	19	20	NC	
Ground connection	GND	21	22	NC	
Empty	NC	23	24	NC	-



Ground connection	GND	25	26	GND	Ground connection	
	Data50	27	28	Data49		
	Data52	29	30	Data51		
RGB output	Data54	31	32	Data53	DCP output	
	Data56	33	34	Data55	RGB output	
	Data58	35	36	Data57		
	Data60	37	38	Data59		
Ground connection	GND	39	40	GND	Ground connection	
DCD - 1 - 1	Data62	41	42	Data61	DOD	
RGB output	Data64	43	44	Data63	RGB output	
	NC	45	46	NC		
.	NC	47	48	NC		
Empty	NC	49	50	NC	Empty	
	NC	51	52	NC		
Ground connection	GND	53	54	GND	Ground connection	
	NC	55	56	NC		
	NC	57	58	NC	Empty	
	NC	59	60	NC		
Empty	NC	61	62	NC		
	NC	63	64	NC		
	NC	65	66	NC		
Ground connection	GND	67	68	GND	Ground connection	
	NC	69	70	NC	Empty	
	NC	71	72	NC		
	NC	73	74	NC		
Empty	NC	75	76	NC		
	NC	77	78	NC		
	NC	79	80	NC		
Ground connection	GND	81	82	GND	Ground connection	
70	RFU4	83	84	RFU3		
	RFU6	85	86	RFU5	Reserved	
Reserved	RFU8	87	88	RFU7		
	RFU10	89	90	RFU9		
MCU Reserved	RFU12	91	92	RFU11		
Reserved	RFU14	93	94	RFU13		
Ground connection	GND	95	96	GND	Ground connection	
	RFU16	97	98	RFU15		
Reserved	RFU18	99	100	RFU17	Reserved	
Empty	NC	101	102	NC	Empty	
1 -				1	1 /	



	NC	103	104	NC		
	NC	105	106	NC		
	NC	107	108	NC		
Ground connection	GND	109	110	GND	6 1	
	GND	111	112	GND	Ground connection	
Empty	NC	113	114	NC	Empty	
	D5V	115	116	D5V		
Power supply	D5V	117	118	D5V	Power supply	
	D5V	119	120	D5V		
		JI	H2		, O	
Instructions	Definition	Pin No.		Definition	Instructions	
	CHASSISGND	1	2	CHASSISGND		
Chassis ground	CHASSISGND	3	4	CHASSISGND	Chassis ground	
	NC	5	6	NC		
Empty	NC	7	8	NC	Empty	
	D1A+	9	10	D2A+		
	D1A-	11	12	D2A-		
	NC	13	14	NC	Ethernet port 2 signal pin	
	D1B+	15	16	D2B+		
Education 1	D1B-	17	18	D2B-		
Ethernet port 1	NC	19	20	NC		
signal pin	D1C+	21	22	D2C+		
	D1C-	23	24	D2C-		
	NC	25	26	NC		
	D1D+	27	28	D2D+		
	D1D-	29	30	D2D-		
Empty	NC	31	32	NC	Empty	
Empty	NC	33	34	NC	Епіріу	
Test button	TEST_ input_KEY	35	36	STA_LED-	Status LED	
Ground connection	GND	37	38	GND	Ground connection	
	FA	39	40	DCLK	First data serial clock	
Row decoding	FB	41	42	DCLK2	Second data serial clock	
signal	FC	43	44	FLAT	Latch	
-	FD	45	46	FCTRL	Blanking	
	FE	47	48	OE	Display enable	
Display enable	OE	49	50	OE	Display ellable	



Ground connection	GND	51	52	GND	Ground connection	
	Data2	53	54	Data1		
RGB output	Data4	55	56	Data3		
	Data6	57	58	Data5	DCD output	
	Data8	59	60	Data7	RGB output	
	Data10	61	62	Data9		
	Data12	63	64	Data11		
Ground connection	GND	65	66	GND	Ground connection	
	Data14	67	68	Data13		
	Data16	69	70	Data15		
DCD autout	Data18	71	72	Data17	DCD output	
RGB output	Data20	73	74	Data19	RGB output	
	Data22	75	76	Data21		
	Data24	77	78	Data23		
Ground connection	GND	79	80	GND	Ground connection	
	Data26	81	82	Data25	RGB output	
	Data28	83	84	Data27		
D0D	Data30	85	86	Data29		
RGB output	Data32	87	88	Data31		
	Data34	89	90	Data33		
	Data36	91	92	Data35		
Ground connection	GND	93	94	GND	Ground connection	
	Data38	95	96	Data37	RGB output	
	Data40	97	98	Data39		
DCD autout	Data42	99	100	Data41		
RGB output	Data44	101	102	Data43		
	Data46	103	104	Data45		
	Data48	105	106	Data47		
Ground connection	GND	107	108	GND	Ground connection	
10	NC	109	110	NC	Empty	
Financia	NC	111	112	NC		
Empty	NC	113	114	NC		
	NC	115	116	NC		
Cround or a time	GND	117	118	GND	Crawad assessed	
Ground connection	GND	119	120	GND	Ground connection	

^{*} DATA65 \sim DATA128 are multiplexed into DATA1 \sim DATA64.



Expanded Functions

Descriptions						
Reserved pin	Smart module pin	Module Flash pin	Description			
RFU1	Reserved	Reserved	MCU Reserved			
RFU2	Reserved	Reserved	MCU Reserved			
RFU3	HUB_CODE0	HUB_CODE0	Flash 1			
RFU4	Reserved	HUB_SPI_CLK	Clock signal of serial pin			
RFU5	HUB_CODE1	HUB_CODE1	Flash 2			
RFU6	Reserved	HUB_SPI_CS	CS Signal of serial pin			
RFU7	HUB_CODE2	HUB_CODE2	Flash 3			
RFU8	/	HUB_SPI_MOSI	Flash storage data input			
	HUB_UART_TX	/	TX signal of smart module			
RFU9	HUB_CODE3	HUB_CODE3	Flash 4			
RFU10	/	HUB_SPI_MISO	Flash storage RGB output			
	HUB_UART_RX	/	RX signal of smart module			
RFU11	HUB_H164_CSD	HUB_H164_CSD	Data signal of 74HC164			
RFU12	Reserved	Reserved	MCU Reserved			
RFU13	HUB_H164_CLK	HUB_H164_CLK	Clock signal of 74HC164			
RFU14	POWER_STA1	POWER_STA1	Dual power detection signal 1			
RFU15	MS_DATA	MS_DATA	Dual card backup connection			
			signal			
RFU16	POWER_STA2	POWER_STA2	Dual power detection signal 2			
RFU17	MS_ID	MS_ID	Dual card backup			
			identification signal			
RFU18	HUB_CODE4	HUB_CODE4	Flash 5			
RFU19	HUM	HUM	Humidity monitoring			
RFU20	Voltage_STA1	Voltage_STA1	Power voltage monitoring 1			
RFU21	Voltage_STA2	Voltage_STA2	Power voltage monitoring 2			

^{*} RFU8 and RFU10 are signal multiplex extension pins. Only one pin from either the ARM Smart Module Pin or the Module Flash Pin can be selected at the same time.

Statement

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