

A10s Pro

Receiving Card



Specifications

Change History

Document Version	Release Date	Description
V1.5.1	2026-01-19	<ul style="list-style-type: none"> Updated the dimensions diagram. Updated the physical dimensions.
V1.5.0	2025-09-15	<ul style="list-style-type: none"> Updated image booster and multi-batch adjustment in product features. Removed free image rotation from product features. Updated the product introduction.
V1.4.0	2025-08-01	<ul style="list-style-type: none"> Added frame rate adaptive 2.0, multi-batch adjustment, and detection of Ethernet cable disconnections to product features. Added an installation diagram. Added information on expansion features. Added details about static protection. Updated the load capacity information. Updated the description for upload coefficients. Updated the storage environment temperature range. Updated the packing Information.
V1.3.0	2024-08-20	<ul style="list-style-type: none"> Updated the product introduction. Updated the description for the Mapping feature. Updated the current and power consumption.
V1.2.2	2024-06-07	<ul style="list-style-type: none"> Added descriptions for NCP. Updated descriptions for load capacity. Updated the feature name for thermal compensation. Updated the dimensions diagram. Removed individual gamma adjustment for RGB, firmware program readback, and configuration parameter readback from product features.
V1.2.1	2023-12-21	<ul style="list-style-type: none"> Added thermal compensation 3.0. Updated product feature descriptions.
V1.2.0	2023-07-19	<ul style="list-style-type: none"> Added the features of display mode switching, brightness overdrive, and seam correction. Removed current dimming from product features.

Introduction

The A10s Pro is a high-end full-featured small receiving card developed by NovaStar Tech Co., Ltd. (hereinafter referred to as NovaStar). It supports the exclusive Adaptive Thermal Compensation, Dynamic Booster, Full-Grayscale Calibration, and Image Booster 3.0 technologies of NovaStar. With other various functions, such as Multi-Mode, Brightness Overdrive, Frame Rate Adaptive 3.0, Frame Rate Adaptive 2.0, Shutter Fit, HDR, Pixel Level Brightness and Chroma Calibration, Quick Adjustment of Dark or Bright Lines, 7-Color Multi-batch Adjustment, Low Latency, 3D, and 90° Image Rotation, this receiving card can greatly improve the brightness, grayscale and color performance from every aspect, offering users an ultimate visual experience with a uniform, smooth and lifelike image. The product uses NCP files to enable users to conveniently and swiftly carry out tasks such as displaying content on the cabinets, upgrading firmware, and optimizing image quality.

The A10s Pro uses high-density connectors for communication to limit the effects of dust and vibration, resulting in high stability. It supports up to 32 groups of parallel RGB data or 64 groups of serial data (expandable to 128 groups of serial data). Its reserved pins allow for custom functions of users. Thanks to its EMC Class B compliant hardware design, the A10s Pro has improved electromagnetic compatibility and is suitable for various demanding on-site setups.

For PWM driver ICs, the maximum load capacity per card is:

- 512×512@60Hz (For 8bit and 10bit video sources)
- 512×384@60Hz (For 12bit video sources)

Note

For PWM driver ICs, when working with COEX controllers and 10bit video sources, the maximum load capacity per card is 512×512@60Hz. When working with other controllers and 10bit video sources, the maximum load capacity per card is 512×384@60Hz.

Certifications

RoHS, EMC Class B

If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact NovaStar to confirm or address the problem.

Otherwise, the customer shall be responsible for the legal risks caused or NovaStar has the right to claim compensation.

Features

Improvements to Display Effect

- Adaptive Thermal Compensation

Dynamically adjust the thermal compensation coefficients of the screen to address the issue of color cast caused by uneven heat dissipation across the screen.

- Dynamic Booster

Real-time analysis and dynamic adjustment are made to each frame to significantly improve the display contrast and image details for better visual experience, and effectively control and lower the display power consumption, extending the service life of the LED screen.

- Full-Grayscale Calibration

Work with NovaStar's high-precision calibration system and scientific-grade camera to generate unique calibration coefficients for each grayscale, ensuring uniformity of each grayscale and dramatically improving the image quality.

- Image Booster 3.0 (Effects depend on driver IC)

- Color Management: Support standard (Rec.709 / DCI-P3 / Rec.2020) and custom color gamuts, enabling more precise colors on the screen.
- Precise Grayscale: Individually correct the 65,536 levels of grayscale (16bit) of the driver IC to fix the display problems at low grayscale conditions, such as brightness spikes, brightness dips, color cast and mottling. This function can also better assist other display technologies, such as 22bit+ and individual gamma adjustment for RGB, allowing for a smoother and uniform image.
- 22bit+: Improve LED screen grayscale by 64 times, with adjustable dithering range and low-gray dithering effect, preventing grayscale loss at low brightness and delivering richer details in dark areas for a more refined display.

- Multi-Mode

Apply different modes based on different display scenarios. This ensures that LED screens are able to achieve optimal display quality in various scenarios.

- Brightness Overdrive

Enhance the maximum brightness of the screen by balancing the uniformity, thus increasing the dynamic range and improving image contrast.

- Frame Rate Adaptive 3.0

Adjust the receiving card parameters in real time according to the input frame rate, so that the display effect at different frame rates (23 Hz to 240 Hz) is the best. This feature requires support from specific driver ICs.

- Frame Rate Adaptive 2.0

Adjust the receiving card parameters in real time according to the input frame rate, so that the display effect at different frame rates is the best.

- Shutter Fit

Automatically adjust the driver IC parameters according to the camera shutter angle to fix problems of black lines, grayscale addition, and grayscale loss during camera shooting in xR scenarios.

- HDR

- Support HDR10 and comply with the SMPTE ST 2084 and SMPTE ST 2086 standards.
- Support HLG.

- Pixel Level Brightness and Chroma Calibration

Work with NovaStar's calibration system to calibrate the brightness and chroma of each pixel, effectively eliminating differences and enabling high consistency for both brightness and chroma.

- Quick Adjustment of Dark or Bright Lines

The different brightness of seams caused by splicing of modules or cabinets can be corrected to improve the visual experience. The correction is easy and takes effect immediately.

- 7-Color Multi-batch Adjustment

Adjust the brightness of cabinets or modules across seven colors to reduce display discrepancies due to production batch variations.

- Low Latency

The latency of video source on the receiving card end can be reduced to 1 frame (only when using modules with driver IC with built-in RAM).

- 3D

Work with the controller that supports 3D function to enable 3D output.

- 90° Image Rotation

The display image can be rotated in multiples of 90° (0°/90°/180°/270°).

Improvements to Maintainability

- **Calibration Coefficient Management**

The calibration coefficients can be uploaded, read back, saved to hardware, and erased.
- **Automatic Module Calibration**

After a new module with flash memory is installed to replace the old one, the calibration coefficients stored in the flash memory can be automatically uploaded to the receiving card when it is powered on, which ensures unchanged uniform display brightness and chroma.
- **Uploading Calibration Coefficients**

Upload calibration coefficients to the receiving card quickly or in a stable manner, with acceleration support if needed.
- **Module Flash Management**

For modules with flash memory, the information stored can be managed, allowing for the storage and readback of calibration coefficients and module IDs.
- **One-click to Apply Calibration Coefficients in Module Flash**

For modules with flash memory, when the Ethernet cable is disconnected, users can hold down the self-test button on the cabinet to upload the calibration coefficients in the memory of the module to the receiving card.
- **Mapping 1.1**

The cabinet displays the Ethernet port, receiving card, and controller numbers in different colors, clearly showing the physical locations and connection topology of receiving cards.
- **Settings of a Stored Image in the Receiving Card**

The image displayed during startup, or displayed when the Ethernet cable is disconnected or there is no video signal can be customized.
- **Temperature and Voltage Monitoring**

Real-time monitoring of the temperature and voltage of the receiving card, without the need for other external devices.
- **Bit Error Detection**

Real-time monitoring of the communication of the Ethernet port on the receiving card which helps users troubleshoot network communication problems.
- **Detection of Ethernet Cable Disconnections**

Monitors the number of times the Ethernet cable to the receiving card is disconnected, assisting in identifying potential communication link issues.

- Status Detection of Dual Power Supplies

When two power supplies are used, their working status can be detected.

- LVDS Transmission (dedicated firmware required)

Low-voltage differential signaling (LVDS) transmission is used to reduce the number of data cables from the hub board to module, increasing the transmission distance and improving the signal transmission quality.

Improvements to Reliability

- Dual Card Backup and Status Monitoring

In an application requiring high reliability, two receiving cards can be mounted onto a single hub board for backup. When the primary card fails, the backup card can serve immediately to ensure uninterrupted operation of the display.

The working status of the primary and backup receiving cards can be monitored in real-time.

- Loop Backup

The receiving card and controller 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.

- Dual Backup of Configuration Parameters

The receiving card configuration parameters are stored in the application area and factory area of the receiving card at the same time. Users usually use the configuration parameters in the application area. If necessary, users can restore the configuration parameters in the factory area to the application area.

- Dual Program Backup

Two copies of firmware program are stored in the receiving card at the factory to avoid the problem that the receiving card may get stuck abnormally during program update.

- Dual Backup of Calibration Coefficients

Brightness and chroma calibration coefficients are stored in the application area and factory area of the receiving card at the same time. Users usually use the calibration coefficients in the application area. If necessary, users can restore the calibration coefficients in the factory area to the application area.

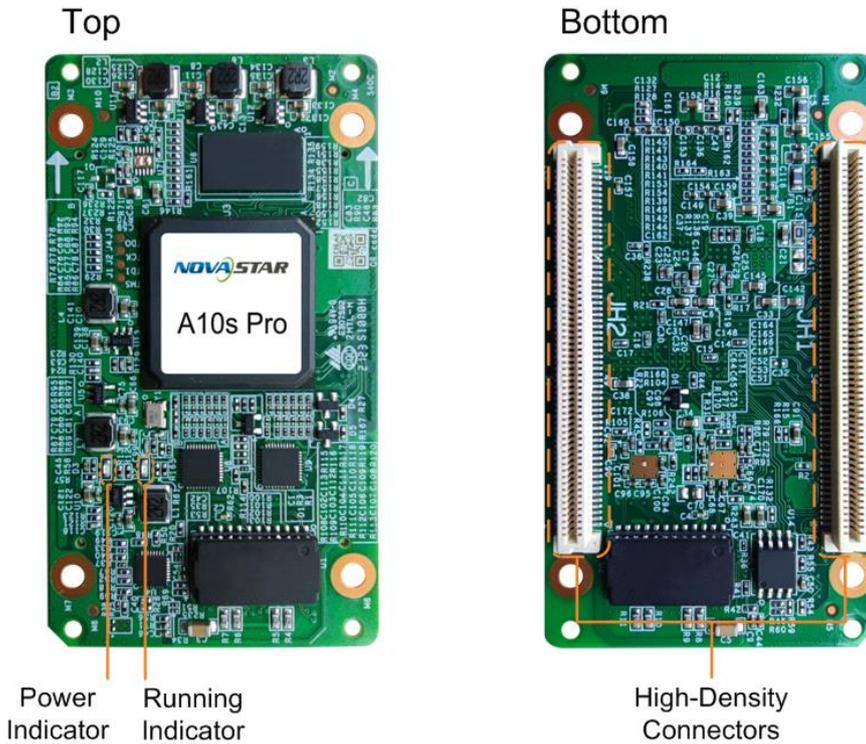
- One-click Firmware Program Learning

The cabinet firmware program and configuration file can be copied to other cabinets with one click in VMP to help quickly complete cabinet configuration.

Note

Full grayscale calibration is supported by the following devices: MX series, MCTRL4K, MCTRL1600, MCTRL600, H15, H9, H5, H2, and V1260.

Appearance



All product pictures shown in this document are for illustration purpose only. Actual product may vary.

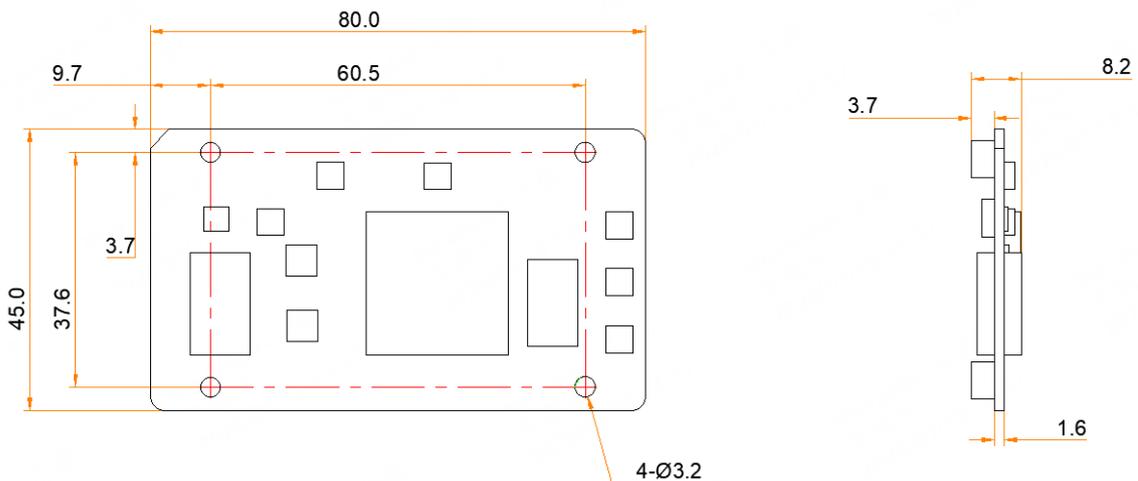
Indicators

Indicator	Color	Status	Description
Running indicator	Green	Flashing once every 1s	The receiving card is functioning normally. Ethernet cable connection is normal, and video source input is available.
		Flashing once every 3s	Ethernet cable connection is abnormal.
		Flashing 3 times every 0.5s	Ethernet cable connection is normal, but video source input is unavailable.

Indicator	Color	Status	Description
		Flashing once every 0.2s	The receiving card failed to load the program in the application area and is now using the backup program.
		Flashing 8 times every 0.5s	A redundancy switchover occurred on the Ethernet port and the loop backup has taken effect.
Power indicator	Red	Always on	The power input is normal.

Dimensions

The board thickness is not greater than 2.0 mm, and the total thickness (board thickness + thickness of components on the top and bottom sides) is not greater than 9.0 mm. Ground connection (GND) is enabled for mounting holes.



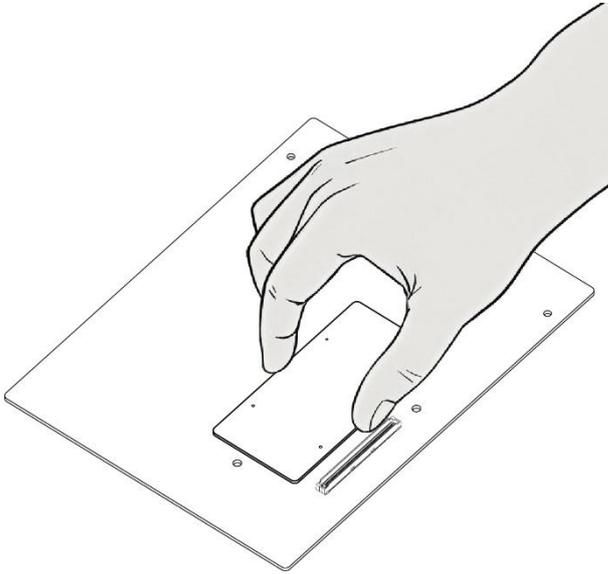
Tolerance: ±0.3 Unit: mm

Note

The distance between outer surfaces of the product and hub boards after their high-density connectors fit together is 5.0 mm. A 5.0 mm copper pillar is recommended. To make molds or trepan mounting holes, please contact NovaStar for a higher-precision structural drawing.

Installation

Please refer to the diagram below. Hold the product securely from the sides (long edges) near the center, and press it into the HUB board to install.

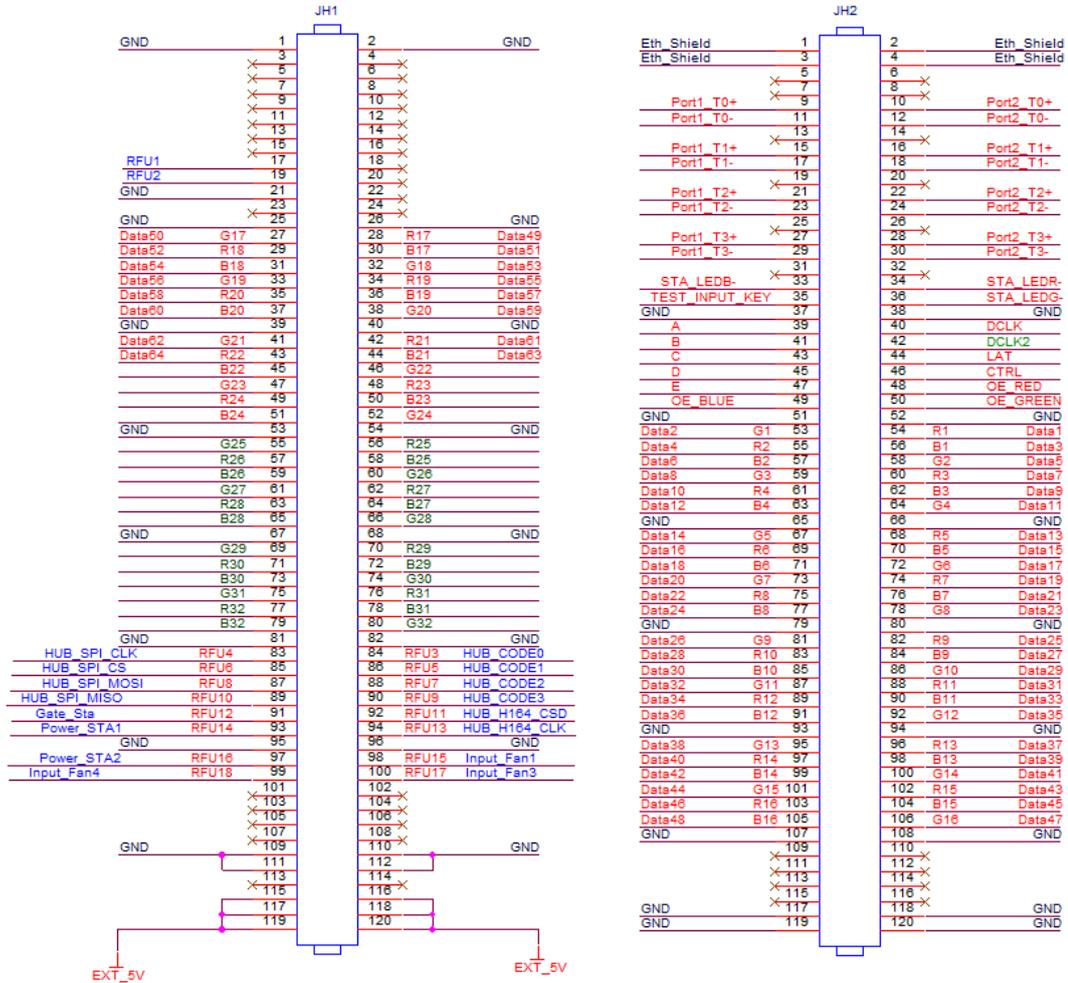


Caution

The product's static resistance is 2 kV. Be mindful of static protection during handling.

Pins

32 Groups of Parallel RGB Data



JH1						
/	GND	1	2	GND	/	
/	NC	3	4	NC	/	
/	NC	5	6	NC	/	
/	NC	7	8	NC	/	
/	NC	9	10	NC	/	
/	NC	11	12	NC	/	
/	NC	13	14	NC	/	

JH1					
/	NC	15	16	NC	/
/	RFU1	17	18	NC	/
/	RFU2	19	20	NC	/
/	GND	21	22	NC	/
/	NC	23	24	NC	/
/	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	/

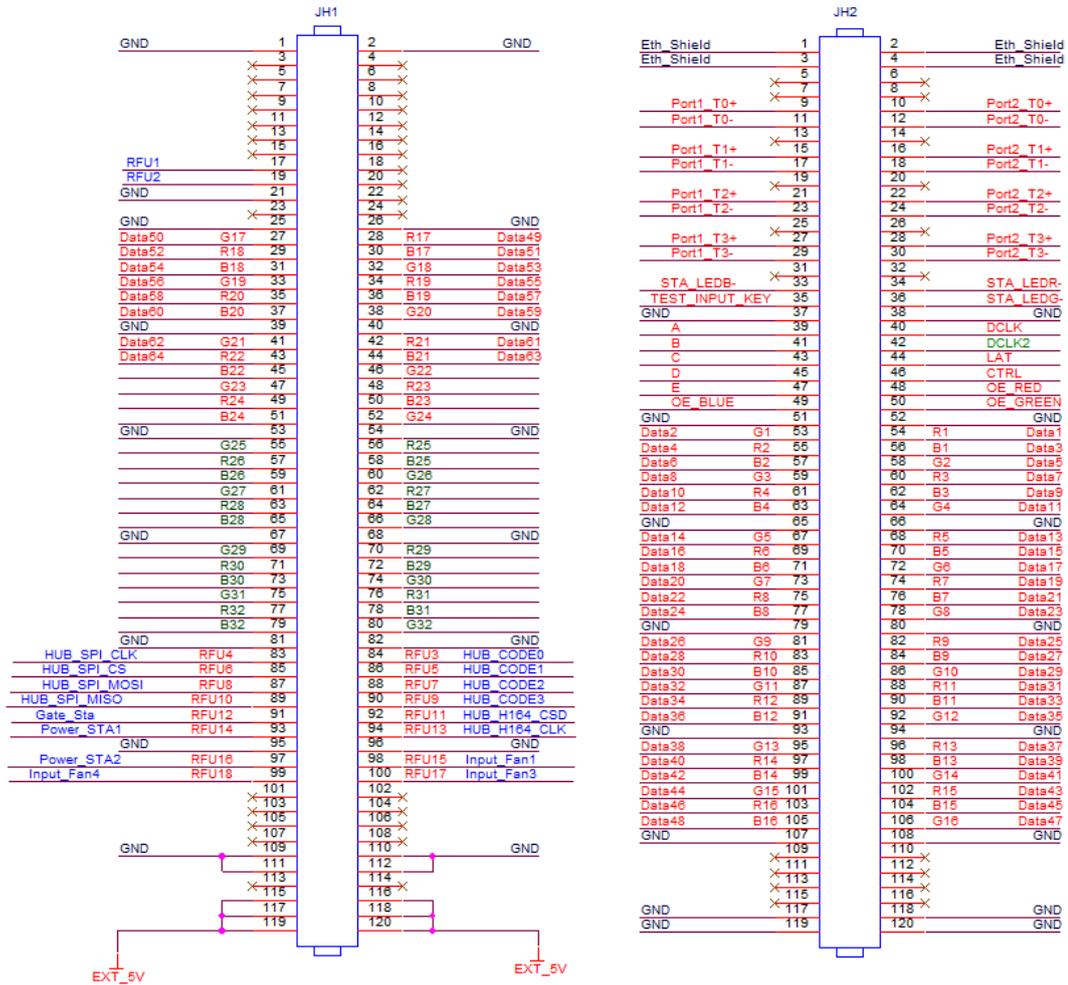
JH1					
/	R30	71	72	B29	/
/	B30	73	74	G30	/
/	G31	75	76	R31	/
/	R32	77	78	B31	/
/	B32	79	80	G32	/
/	GND	81	82	GND	/
/	RFU4	83	84	RFU3	/
/	RFU6	85	86	RFU5	/
/	RFU8	87	88	RFU7	/
/	RFU10	89	90	RFU9	/
/	RFU12	91	92	RFU11	/
/	RFU14	93	94	RFU13	/
/	GND	95	96	GND	/
/	RFU16	97	98	RFU15	/
/	RFU18	99	100	RFU17	/
/	NC	101	102	NC	/
/	NC	103	104	NC	/
/	NC	105	106	NC	/
/	NC	107	108	NC	/
/	GND	109	110	GND	/
/	GND	111	112	GND	/
/	NC	113	114	NC	/
/	EXT_5V	115	116	EXT_5V	/
/	EXT_5V	117	118	EXT_5V	/
/	EXT_5V	119	120	EXT_5V	/

JH2					
Chassis ground	Eth_Shield	1	2	Eth_Shield	Chassis ground
Chassis ground	Eth_Shield	3	4	Eth_Shield	Chassis ground
/	NC	5	6	NC	/
/	NC	7	8	NC	/
Gigabit Ethernet port	Port1_T0+	9	10	Port2_T0+	Gigabit Ethernet port
	Port1_T0-	11	12	Port2_T0-	
	NC	13	14	NC	
	Port1_T1+	15	16	Port2_T1+	
	Port1_T1-	17	18	Port2_T1-	
	NC	19	20	NC	
	Port1_T2+	21	22	Port2_T2+	
	Port1_T2-	23	24	Port2_T2-	
	NC	25	26	NC	
	Port1_T3+	27	28	Port2_T3+	
Port1_T3-	29	30	Port2_T3-		
/	NC	31	32	NC	/
Tri-color LED (Reserved)	STA_LEDB-	33	34	STA_LEDR-	Tri-color LED (Reserved)
Test button	Input_KEY_IN	35	36	STA_LEDG-	Running indicator (active low) Tri-color LED (Reserved)
/	GND	37	38	GND	/
Line decoding signal	A	39	40	DCLK1	Shift clock output 1
Line decoding signal	B	41	42	DCLK2	Shift clock output 2
Line decoding signal	C	43	44	LAT	Latch signal output
Line decoding signal	D	45	46	CTRL	Afterglow control signal
Line decoding	E	47	48	OE_R	Display enable signal

JH2					
signal					
Display enable signal	OE_B	49	50	OE_G	Display enable signal
/	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	/

JH2					
/	G15	101	102	R15	/
/	R16	103	104	B15	/
/	B16	105	106	G16	/
/	GND	107	108	GND	/
/	NC	109	110	NC	/
/	NC	111	112	NC	/
/	NC	113	114	NC	/
/	NC	115	116	NC	/
/	GND	117	118	GND	/
/	GND	119	120	GND	/

64 Groups of Serial Data



JH1						
/	GND	1	2	GND	/	
/	NC	3	4	NC	/	
/	NC	5	6	NC	/	
/	NC	7	8	NC	/	
/	NC	9	10	NC	/	
/	NC	11	12	NC	/	
/	NC	13	14	NC	/	
/	NC	15	16	NC	/	
/	RFU1	17	18	NC	/	

JH1					
/	RFU2	19	20	NC	/
/	GND	21	22	NC	/
/	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	/
/	NC	45	46	NC	/
/	NC	47	48	NC	/
/	NC	49	50	NC	/
/	NC	51	52	NC	/
/	GND	53	54	GND	/
/	NC	55	56	NC	/
/	NC	57	58	NC	/
/	NC	59	60	NC	/
/	NC	61	62	NC	/
/	NC	63	64	NC	/
/	NC	65	66	NC	/
/	GND	67	68	GND	/
/	NC	69	70	NC	/
/	NC	71	72	NC	/
/	NC	73	74	NC	/

JH1					
/	NC	75	76	NC	/
/	NC	77	78	NC	/
/	NC	79	80	NC	/
/	GND	81	82	GND	/
/	RFU4	83	84	RFU3	/
/	RFU6	85	86	RFU5	/
/	RFU8	87	88	RFU7	/
/	RFU10	89	90	RFU9	/
/	RFU12	91	92	RFU11	/
/	RFU14	93	94	RFU13	/
/	GND	95	96	GND	/
/	RFU16	97	98	RFU15	/
/	RFU18	99	100	RFU17	/
/	NC	101	102	NC	/
/	NC	103	104	NC	/
/	NC	105	106	NC	/
/	NC	107	108	NC	/
/	GND	109	110	GND	/
/	GND	111	112	GND	/
/	NC	113	114	NC	/
/	EXT_5V	115	116	EXT_5V	/
/	EXT_5V	117	118	EXT_5V	/
/	EXT_5V	119	120	EXT_5V	/

JH2					
Chassis ground	Eth_Shield	1	2	Eth_Shield	Chassis ground
Chassis ground	Eth_Shield	3	4	Eth_Shield	Chassis ground

JH2						
/		NC	5	6	NC	/
/		NC	7	8	NC	/
Gigabit Ethernet port		Port1_T0+	9	10	Port2_T0+	Gigabit Ethernet port
		Port1_T0-	11	12	Port2_T0-	
		NC	13	14	NC	
		Port1_T1+	15	16	Port2_T1+	
		Port1_T1-	17	18	Port2_T1-	
		NC	19	20	NC	
		Port1_T2+	21	22	Port2_T2+	
		Port1_T2-	23	24	Port2_T2-	
		NC	25	26	NC	
		Port1_T3+	27	28	Port2_T3+	
Port1_T3-	29	30	Port2_T3-			
/		NC	31	32	NC	/
Tri-color LED (Reserved)		STA_LEDB-	33	34	STA_LEDR-	Tri-color LED (Reserved)
Test button		Input_KEY_IN	35	36	STA_LEDG-	Running indicator (active low) Tri-color LED (Reserved)
/		GND	37	38	GND	/
Line decoding signal		A	39	40	DCLK1	Shift clock output 1
Line decoding signal		B	41	42	DCLK2	Shift clock output 2
Line decoding signal		C	43	44	LAT	Latch signal output
Line decoding signal		D	45	46	CTRL	Afterglow control signal
Line decoding signal		E	47	48	OE_R	Display enable signal
Display enable		OE_B	49	50	OE_G	Display enable signal

JH2					
signal					
/	GND	51	52	GND	/
/	Data2	53	54	Data1	/
/	Data4	55	56	Data3	/
/	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	/

JH2					
/	Data48	105	106	Data47	/
/	GND	107	108	GND	/
/	NC	109	110	NC	/
/	NC	111	112	NC	/
/	NC	113	114	NC	/
/	NC	115	116	NC	/
/	GND	117	118	GND	/
/	GND	119	120	GND	/

 Note

The recommended power input is 5.0 V.

OE_R, OE_G and OE_B are display enable signals. When RGB are not controlled separately, use OE_R. When the PWM chip is used, they are used as GCLK signals.

In the mode of 128 groups of serial data, Data65–Data128 are multiplexed into Data1–Data64, respectively.

Reference Design for Extended Functions

Pins for Extended Functions			
Pin	Recommended Module Flash Pin	Recommended Smart Module Pin	Description
RFU4	HUB_SPI_CLK	(Reserved)	Clock signal of serial pin
RFU6	HUB_SPI_CS	Reserved	CS signal of serial pin
RFU8	HUB_SPI_MOSI	/	Module flash data storage input
	/	HUB_UART_TX	Smart module TX signal
RFU10	HUB_SPI_MISO	/	Module flash data storage output
	/	HUB_UART_RX	Smart module RX signal
RFU1	Reserved		A reserved pin for connection to MCU
RFU2	Reserved		A reserved pin for connection to MCU
RFU3	HUB_CODE0		Module Flash BUS control pin

Pins for Extended Functions		
RFU5	HUB_CODE1	
RFU7	HUB_CODE2	
RFU9	HUB_CODE3	
RFU11	HUB_H164_CSD	74HC164 data signal
RFU12	/	/
RFU13	HUB_H164_CLK	74HC164 clock signal
RFU14	POWER_STA1	Dual power supply detection signal 1
RFU15	MS_DATA	Dual card backup connection signal
RFU16	POWER_STA2	Dual power supply detection signal 2
RFU17	MS_ID	Dual card backup identifier signal
RFU18	HUB_CODE4	Flash control pin 5

 Note

The RFU8 and RFU10 are signal multiplex extension pins. Only one pin from either the Recommended Smart Module Pin or the Recommended Module Flash Pin can be selected at the same time.

For hub design, please contact NovaStar for detailed reference designs.

Specifications

Maximum Resolution	For PWM driver ICs, the maximum load capacity per card is:	
	<ul style="list-style-type: none"> • 512×512@60Hz (For 8bit and 10bit video sources) • 512×384@60Hz (For 12bit video sources) 	
Electrical Parameters	Input voltage	DC 3.8 V to 5.5 V
	Rated current	0.8 A
	Rated power consumption	4.0 W
	Anti-static Protection	2 kV
Operating	Temperature	-20°C to +70°C

Environment	Humidity	10% RH to 90% RH, non-condensing
Storage Environment	Temperature	-40°C to +85°C
	Humidity	0% RH to 95% RH, non-condensing
Physical Specifications	Dimensions	80.0 mm × 45.0 mm × 8.2 mm
	Net weight	22.8 g Note: It is the weight of a single receiving card only.
Packing Information	Packaging	Each receiving card is packaged in a blister pack. Each packing box contains 80 receiving cards.
	Packing box	392.0 mm × 200.0 mm × 123.0 mm

The amount of current and power consumption may vary depending on various factors such as product settings, usage, and environment.

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Statement

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