

S20FLED Video Controller

Specification V1.1





Overview

S20F is a controller possessing powerful video signal receiving capacity. It supports the input of DP1.2 and HDMI2.0, and seamless switching between signal sources. A single unit features a loading capacity of up to 8.85 million pixels, with a maximum width or height of 8192 pixels, while a single Ethernet port supports a loading width or height of up to 4096 pixels, and the controller supports signal inputs of up to 4096×2160@60Hz resolution. Thus, S20F allows users to configure ultra-long, ultra-high and ultra-large screens. S20F supports 4 optical fiber port output (2 active and 2 standby), as well as Ethernet port redundancy and controller redundancy. It can not only effectively ensure the display stability of screens, but also provide high-quality image display and flexible screen control.

Features

- Input: 1×DP 1.2, 1×HDMI 2.0
- Support seamless switching between signal sources
- Loading capacity: up to 8.85 million pixels, maximum width or height:
 8192 pixels
- 4 optical fiber outputs, 2 active and 2 standby, single optical port transmission rate 10Gb/s
- Input resolution: up to 4096×2160@60Hz, supporting customized setting of resolution within control range
- Support Ethernet port redundancy or controller redundancy
- Support USB cascading control and RS232 protocol control
- Separate audio input and output
- Support 3D display (optional)
- Better gray at low brightness
- Compatible with all receiver cards and multifunction cards of Colorlight

Hardware

Front





No.	ltem	Function	
1	LCD	Display the operation menu and system information	
2	Knob	Turn the knob to select an item or adjust the parameter; press the knob to confirm your selection or adjustment	
3	Function Key	OK: Enter key ESC: Escape key Bright: Brightness adjustment Black: Blackout	
4	Selection Key	HDMI: Select HDMI2.0 as the signal source DP: Select DP1.2 as the signal source	
5	Power Switch	Power switching for the device	

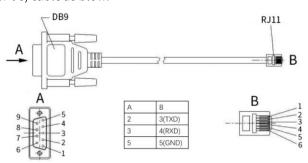


Rear



Input					
1	HDMI2.0	1×HDMI 2.0			
2	DP1.4	1×DP 1.4			
Output	Output				
1	FIBER1, FIBER2	2x10G optical ports, dual LC interface, standard 2 pcs 10G single-mode optical modules, wavelength: 1310nm, transmission distance: 2km			
2	FIBER 1 BACKUP FIBER 2 BACKUP	Automatic backup ports for FIBER1 and FIBER2			
3	3D (Optional)	Output the 3D control signal			
Control	Control				
1	USB IN	USB input, connecting to PC for debugging			
2	USB OUT	USB output, as cascading output			
3	RS232	RJ11 (6P6C)*, connect to the third party device			
Audio					
1	AUDIO IN	Audio input, input audio signals from the computer or other devices			
2	AUDIO OUT	Audio output, output audio signals to the speaker (Support processing and outputting the audio signal of HDMI and DP)			
Power S	Power Supply				
1	AC 100~240V	AC power interface, containing a built-in fuse			

^{*} DB9 female to RJ11(6P6C) cable as blow:





Device Specifications

Model		S20F	
Chassis Size		2U	
Electrical	Input Voltage	AC100~240V, 50/60Hz	
Specifications	Power Consumption	40W	
Operating	Temperature	-20°C~70°C/-4°F~158°F	
Environment	Humidity	0%RH~80%RH, non-condensing	
Storage	Temperature	-40°C~80°C/-40°F~176°F	
Environment	Humidity	0%RH~90%RH, non-condensing	
Device	Dimensions	W×H×L/482.6×88.0×369.0 mm ³ /19"×3.5"×14.5"	
Specifications	Net Weight	5.1kg/11.24lbs	
Packing	Dimensions	W×H×L/525.0×150.0×455.0mm³/20.7"×5.9"×1 7.9"	
Specifications	Net Weight	6.6kg/14.77lbs	
Certification information		CCC, RoHS	

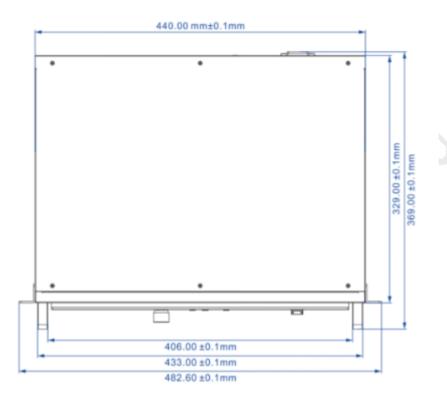
Technical Specifications

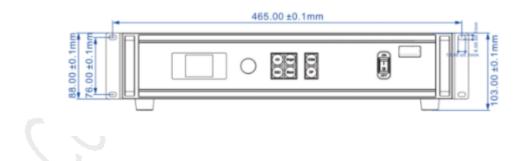
прміз о	(A)					
HDMI2.0						
Standard	HDMI2.0 specification, EIA/CEA-861 standard, supports EDID					
	Backward compatible with HDMI1.4 and HDMI1.3					
Input	Format		Maximum Input Resolution			
	8bit	RGB444	4096×2160@60Hz			
		YCbCr444				
		YCbCr422				
	Frame Rate	23.98/24/25/29.97/30/47.95/48/50/59.94/60/120/144Hz				
Support au	udio input					
DP1.2						
Standard	DP1.2 specification, supports EDID Backward compatible with DP1.1					
17000000	Format		Maximum Input Resolution			
	8bit	RGB444	4096×2160@60Hz			
Input		YCbCr444				
		YCbCr422				
	Frame Rate 23.98/24/25/29.97/3		30/47.95/48/50/59.94/60/120/144Hz			
Support at	ıdio input					



Dimensions

Unit: mm





Statement

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