

S6F

LED Video Controller

Specification V1.2



Overview

S6F possesses powerful video signal receiving capacity, and supports DVI&HDMI HD signal input and loop output, in which max input resolution is 1920×1200 pixels. Meanwhile, 6 Gigabit Ethernet and 3 optical fiber outputs support big LED display of 4096 pixels in maximum width or 2560 pixels in maximum height.

S6F adopts dual USB2.0 interfaces for high-speed configuration and easy cascading, and the operation is simple and convenient. Also, it equips a series of versatile functions, which have many advantages in applications of manufacture and engineering.

Features

- Video input ports including 1 HDMI with loop, 1 DVI with loop
- Up to $1920 \times 1200@60\text{Hz}$ input resolution, supporting EDID setting
- Loading capacity: 2.3 million pixels, maximum width: 4096 pixels, or maximum height: 2560 pixels
- 6 Gigabit Ethernet outputs support screen arbitrary splicing
- Support 3 optical fiber outputs
- Dual USB2.0 for high-speed configuration and easy cascading
- Support splicing and cascading among several devices with synchronization strictly
- Support control via Fast Ethernet port
- Support brightness and color temperature adjustment
- Support improved gray-scale at low brightness
- Support HDCP
- Compatible with all conventional receiving cards of Colorlight

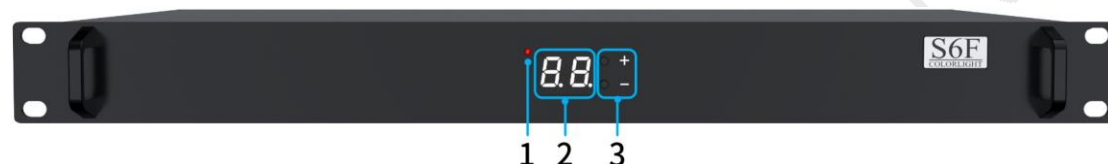
Specifications

Video Source	
Interface type	1×HDMI+1×DVI+1×HDMI_LOOP+1×DVI_LOOP
Input resolution	1920×1200 pixels maximum
Video source frame rate	60Hz, support auto-adjustment
Gigabit Ethernet	
Net Port Number	6 Gigabit Ethernet ports
Control area	2.3 million pixels maximum Maximum width: 4096 pixels, Maximum height: 2560 pixels
Transmission distance	Recommended: CAT5e≤100m
Cascading	Up-down or left-right cascading defined by user
Transmission mode	Frame mode (Gigabit Ethernet) with CRC
Optical Fiber	
Port number	3 optical fiber ports
Transmission distance	Single-mode SFP module with a transmission distance of 2km (optional)
Fiber port	Single-mode twin-core SFP module (optional), Dual-LC port
Connection Equipment	
Receiving card	Compatible with all conventional receiving cards of Colorlight
Peripherals	Multifunction card, optical fiber transceivers, Gigabit switcher
Specification	
Chassis size	1U
Input voltage	AC 100~240V, 50/60Hz
Rated power consumption	20W
Weight	2kg
External Interfaces	
Configuration port	USB 2.0×1, LAN×1
Input information	Present info about frame rate, blanking value, clock, display status of video card and video processor
Brightness adjustment	Adjustment by knob, auto saved in sending card
Real-time configuration	Gamma, control area and parameter setting
Brightness and Chromaticity Adjustment	Support

Smart Detection System	DVI interface detection, temperature detection
More Functions	
Cascading	Via USB ports. Support synchronous parameter setting and read back
Multiple Screen Control	Multiple screens with different sizes can be controlled simultaneously
BER Detection	Communication quality and malfunction detection

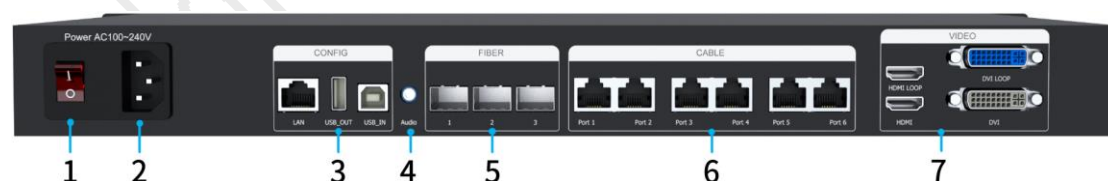
Hardware

Front panel



No.	Name	Function
1	Power signal light	Light on indicates device power supply is normal
2	Digital tube	Brightness level display, 0~16 levels - 0 level: brightness minimum, brightness value is 0 - 16 levels: brightness maximum, brightness value of 100
3	+ / -	Brightness level adjustment - Each level of brightness reference value of 6.25, there may be an error within the allowable range

Rear panel



No.	Name	Function
1	Power switch	On/off
2	Power input	AC power input, AC 100~240V
3	LAN	Communication with PC or access network
	USB_OUT	USB output, as cascading output
	USB_IN	USB input, connect with computer for configuration

Reference dimensions

Technical drawing of the 1U rackmount server showing front, top, and side views with dimensions.

Front View Dimensions:

- Width: 44
- Height: 482.6
- Bottom Flange Height: 31.8

Top View Dimensions:

- Width: 240
- Height: 440

Side View: Shows the server's profile with a handle on the left and ventilation slots on the right.

Front Panel Details:

- Top: Two circular indicator lights.
- Center: A square display screen.
- Bottom: A small rectangular slot.

Top Panel Details:

- Left: Two circular indicator lights.
- Center: A square display screen.
- Right: A small rectangular slot.

Side Panel Details:

- Top: Two circular indicator lights.
- Center: A square display screen.
- Right: A small rectangular slot.

Statement

Copyright © 2022 Colorlight Cloud Tech Ltd. . All rights reserved.

Without the express written permission of Colorlight Cloud Tech Ltd., no unit or individual may copy, copy, transcribe or translate part or all of the contents of this book. Not to be used for any commercial or profit-making purposes in any form or by any means.

 **Colorlight®** The logo is a registered trademark of Colorlight Cloud Tech Ltd.

Without the written permission of the company or the trademark owner, no unit or individual may in any way or for any reason use, reproduce, modify, disseminate, transcribe or infringe all or any part of the above-mentioned trademark, nor may it be bundled with other products. Use sales.

As factors such as product batches and production processes may change, in order to provide accurate product information, specification parameters, and product characteristics in order to match the actual product, the text description and picture effects in the document will be adjusted and revised appropriately. If it is necessary to carry out the above modification and adjustment without prior notice, please refer to the actual product.

Welcome to choose to use the products of Colorlight Cloud Tech Ltd. If you have any questions or suggestions in use, please contact us through official channels, we will try our best to support and listen to your valuable suggestions. For more information and updates, please visit the official website www.colorlightinside.com or scan the QR code.

Service Phone

4008 770 775

Colorlight Cloud Tech Ltd.

Official Website: www.colorlightinside.com
Head Office Address: Room 37F-39F, Building 8, Zone A,
Shenzhen International Innovation Valley, Vanke Cloud City, Dashi Yilu,
Nanshan District, Shenzhen, China

