SE0

Splice server

Specification

Version: V1.0.4

Release date: March 2024

Update History

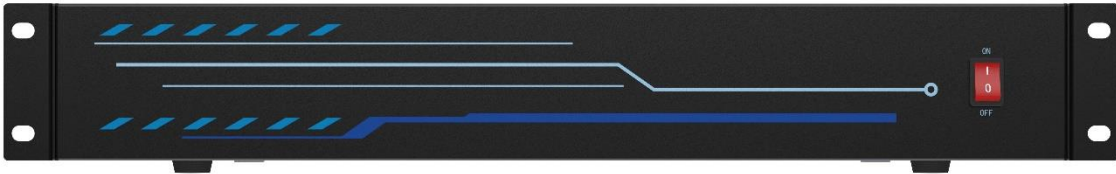| Document Version	Release Data	Revision Notes
V1.0.0	2023-09-01	First version released
V1.0.1	2023-10-13	Modify the physical back image
V1.0.2	2023-11-10	Modify device size data
V1.0.3	2023-12-10	Change functional features Update input/output board introduction format Update the maximum resolution of the input/output board
V1.0.4	2024-03-26	Update application scenario diagram

Overview

SE0 splicing server is a professional video processing and control device with a pure hardware FPGA design architecture and a modular design for the board. It can be widely used in TV stations, dispatch rooms, command centers, exhibition halls, conference rooms, stage performances, data centers, multi-function halls and other scenarios.

Features

- Supports 12 channels of HDMI1.3 interface output.
- The maximum load capacity of a single port is 2.6 million pixels; it supports custom output resolution, with a maximum width of 4096 pixels and a maximum height of 4096 pixels.
- Supports 4 channels of HDMI1.3 interface input.
- A single machine supports up to 6 2K layers.
- There is no need to install software, it is controlled via the Web, and is not restricted by operating systems and operating platforms.
- Different preset parameters can be saved as scenes, and multi-screen scenes and single-screen scenes can be called with one click and switched easily.
- Supports up to 8 groups of screen management, and the output resolution of each group of screens can be set separately, easily completing display control of special-shaped screens and complex scenes.
- It supports overlaying text on layers, and subtitles can be displayed statically or dynamically scrolling. Users can set the background color, scrolling style, etc. of the subtitles.
- Supports pre-editing management, and layer editing does not affect the current device output.
- Supports input source polling and regular switching of multiple input sources.
- Supports scene patrol to meet unsupervised application scenarios.
- It supports the input source station logo, embeds characters in each input signal, and identifies the input signal. The screen displays the input signal and displays the embedded characters at the same time.
- Supports seamless switching. When switching layers' signals or calling plans, there will be no black screen, no flickering, and no lag in the entire process.
- Supports hardware monitoring, including real-time monitoring of the temperature and voltage of each hardware module, firmware version, operating status, fan speed, etc.
- Supports remote upgrade, program upgrade can be performed remotely, and system maintenance is simple.

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Appearance

Front panel

Rear panel

Notes:

The back panels of the machines posted in this article are all samples and are for reference only. Please refer to the actual product purchased.

Rear panel silk screen instructions:

- The marked card slot is the input card slot, and only the input card can be installed.

- The marked card slot is the output card slot, and only the output card can be installed.

- The marked card slot is the control board card slot, and only the control board card can be installed.

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Specification Introduction

Input board introduction

SEx_4×HDMI1.3 input board	
Performance parameters	**HDMI 1.3 input** ● Number of input interfaces：4 channels HDMI 1.3 ● Maximum input resolution：2048×1152@60Hz ● Custom resolution：Limit width 2048（2048×1152@60Hz） 　　　　　　　　　　Limit height 2048（1152×2048@60Hz） ● Video input format：RGB444，YCbCr444，YCbCr422 ● Support audio **Specifications** ● Input signal level：TMDS /CML ● Impedance：Difference 100ohm ● Power：5W **Status LEDs:** ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device *The first column of lights from left to right indicates HDMI-1 on the upper side and HDMI-2 on the lower side; 　　Similarly, the second column of lights indicates HDMI-3 on the upper side and HDMI-4 on the lower side.

Output board introduction

SEx_4×HDMI1.3 output board	
Performance parameters	**HDMI 1.3 output** ● Number of output interfaces：4 channels HDMI 1.3 ● Maximum output resolution：2048×1152@60Hz ● Custom resolution：Limit width 4096（4096×616@60Hz） 　　　　　　　　　　Limit height 4096（480×4096@60Hz）

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	• Video output format：RGB444，YCbCr444，YCbCr422
	• Support audio
	Specifications
	• Input signal level：TMDS /CML
	• Impedance：Difference 100ohm
	• Power：5W
KEx_8×HDMI1.3 output board	
Performance parameters	 **HDMI 1.3 output** • Number of output interfaces：8 channels HDMI 1.3 • Maximum output resolution：2048×1152@60Hz • Custom resolution：Limit width 4096（4096×616@60Hz） 　　　　　　　　　　　Limit height 4096（480×4096@60Hz） • Video output format：RGB444，YCbCr444，YCbCr422 • Support audio **Specifications** • Input signal level：TMDS /CML • Impedance：Difference 100ohm • Power：10W

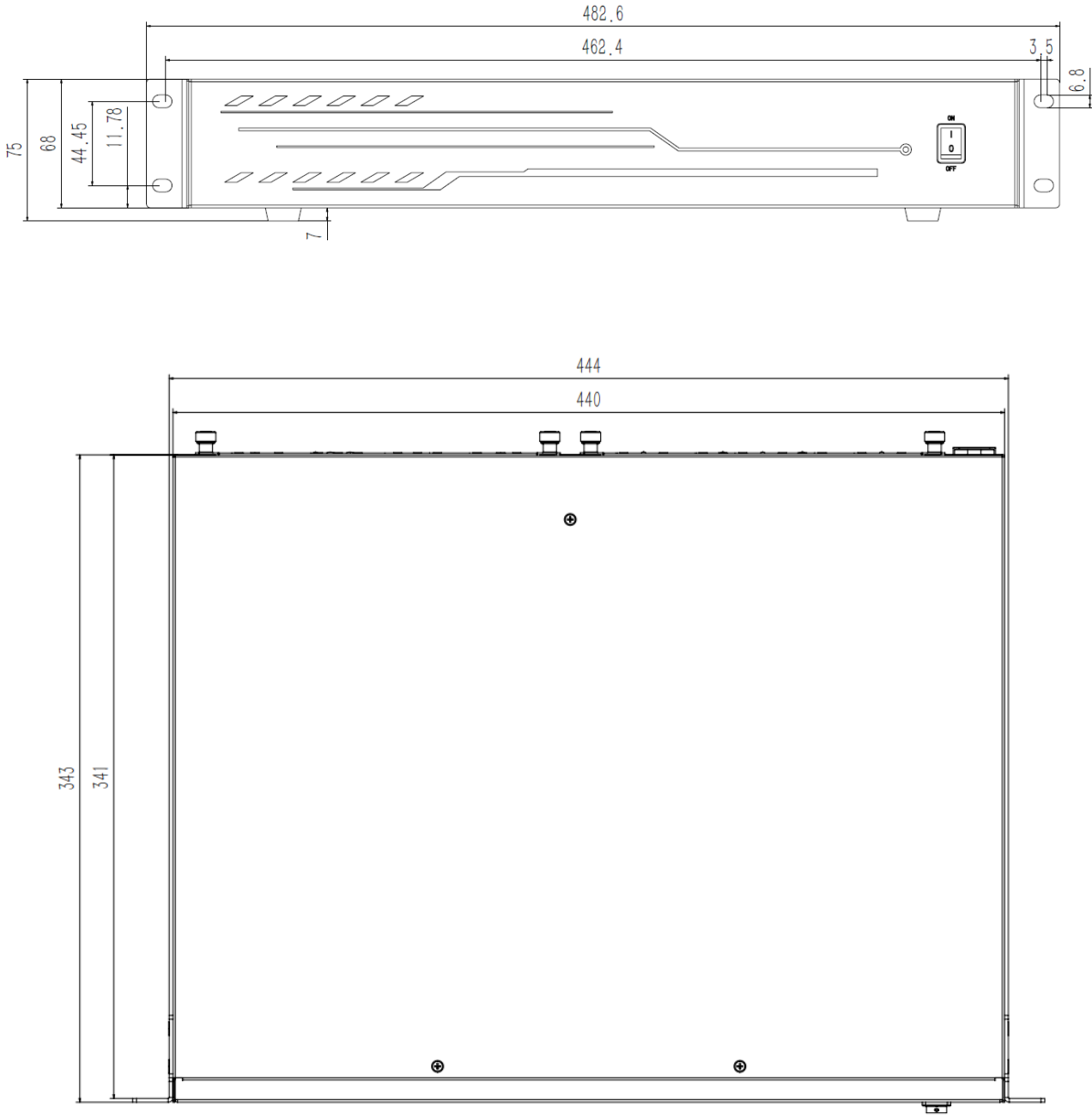## Control board introduction

SEx_Control Board	
Performance parameters	 **Interface parameters** • COM-1：RS232 control port, can be connected with the central control system • COM-2：RS232 control port, can be connected with central control system; can be used as COM-1 loop-out port • USB：The USB3.0 interface is only used for system upgrades and cannot be used for power supply to other devices. • ETHERNET：Gigabit network port, communication interface, connected with control computer, router or switch, for web control

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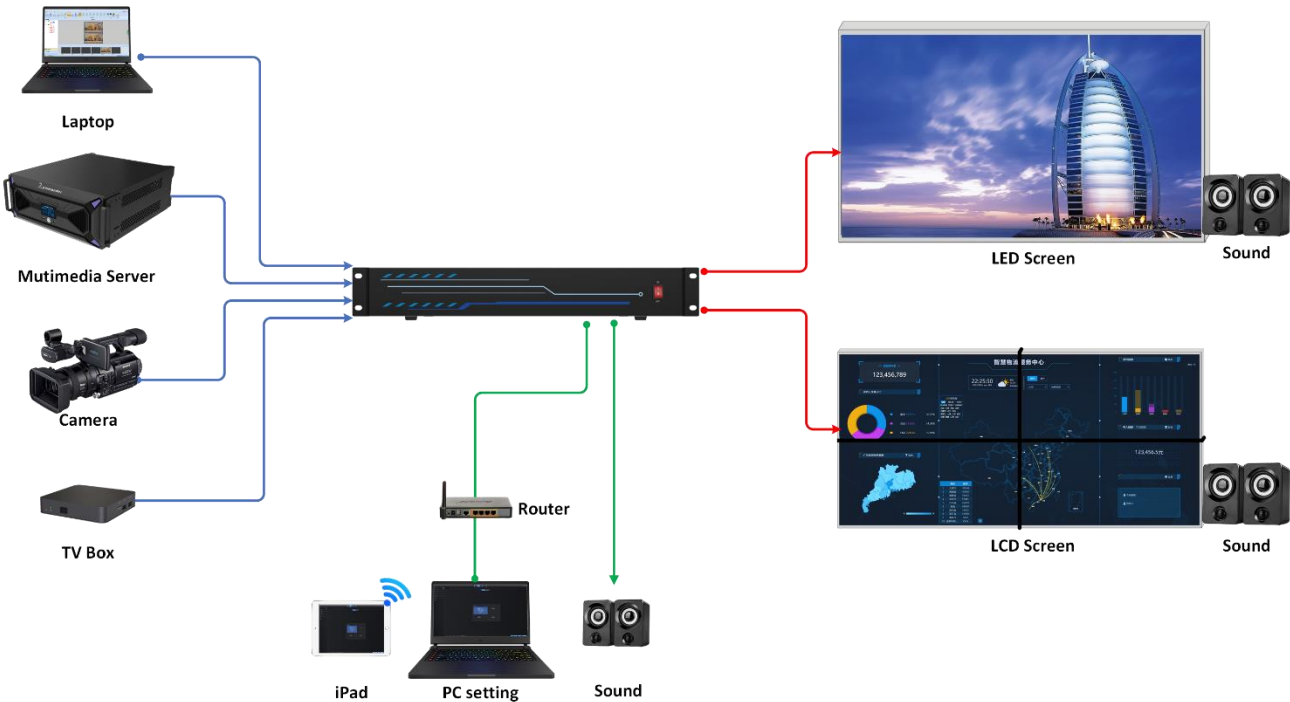|	**Status LEDs:**
	● RUN
	- Fast flashing: the device is starting
	- Fixed frequency flashing: 1/2S, the system is running normally
	- No flashing or no light: system failure (after the device is turned on)
	● PWR
	- On: The power supply of the device is normal
	- Off: Abnormal power supply of the device

Machine specifications

Model	SE0
Chassis specifications	1.5U
Input	HDMI1.3×4
Output	HDMI1.3×12
Max layers	6
Input power	110-240V~，47-63Hz，1A
Machine power consumption	50W
Working environment	0~45℃，0%RH～80%RH，No condensation
Storage environment	-20℃~65℃，0%RH～95%RH，No condensation
Dimensions	482.6mm×343mm×75mm（L×W×H）
Net weight	5KG
Gross weight	6KG

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Dimensions

Unit: mm. Linear and angular dimensional tolerances not noted conform to GB/T1804-M.

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Application scenarios

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