



KE0

Splice server

Specifications

Version: v1.0.1

Release date: October 2023

Update history

Document version	release time	Revision Notes
V1.0.0	2023-09-01	First version released
V1.0.1	2023-10-13	Modify the physical back image

Overview

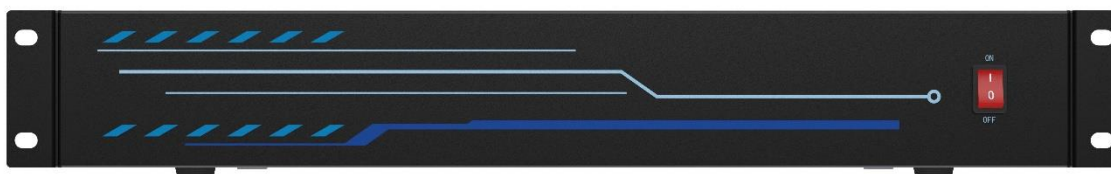
SE0 splicing server is a professional video processing and control device with a pure hardware FPGA design architecture and a modular design for the board. It can be widely used in TV stations, dispatch rooms, command centers, exhibition halls, conference rooms, stage performances, data centers, multi-function 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.
- It comes standard with 4 channels of HDMI1.3 interface input, and an additional input board can be optional.
- 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.

Exterior

front panel



Rear panel



- 2 The marked card slot is the input card slot, which can install optional input boards.

Input board introduction

		
Board information	SEx_4×HDMI1.3 input board	
Performance parameters	Input signal type	HDMI1.3
	Maximum input resolution	2048×1152@60Hz
	Video input format	RGB444, YCbCr444, YCbCr422
	Custom resolution	Limit width 2048, limit height 2048
	Input signal level	TMDS /CML
	Impedance	difference 100ohm
	Power consumption	5W
	Other	- Support accompanying audio - Always on: Input signal is connected normally - Off: The input is not connected or the input is abnormal.

Output board introduction

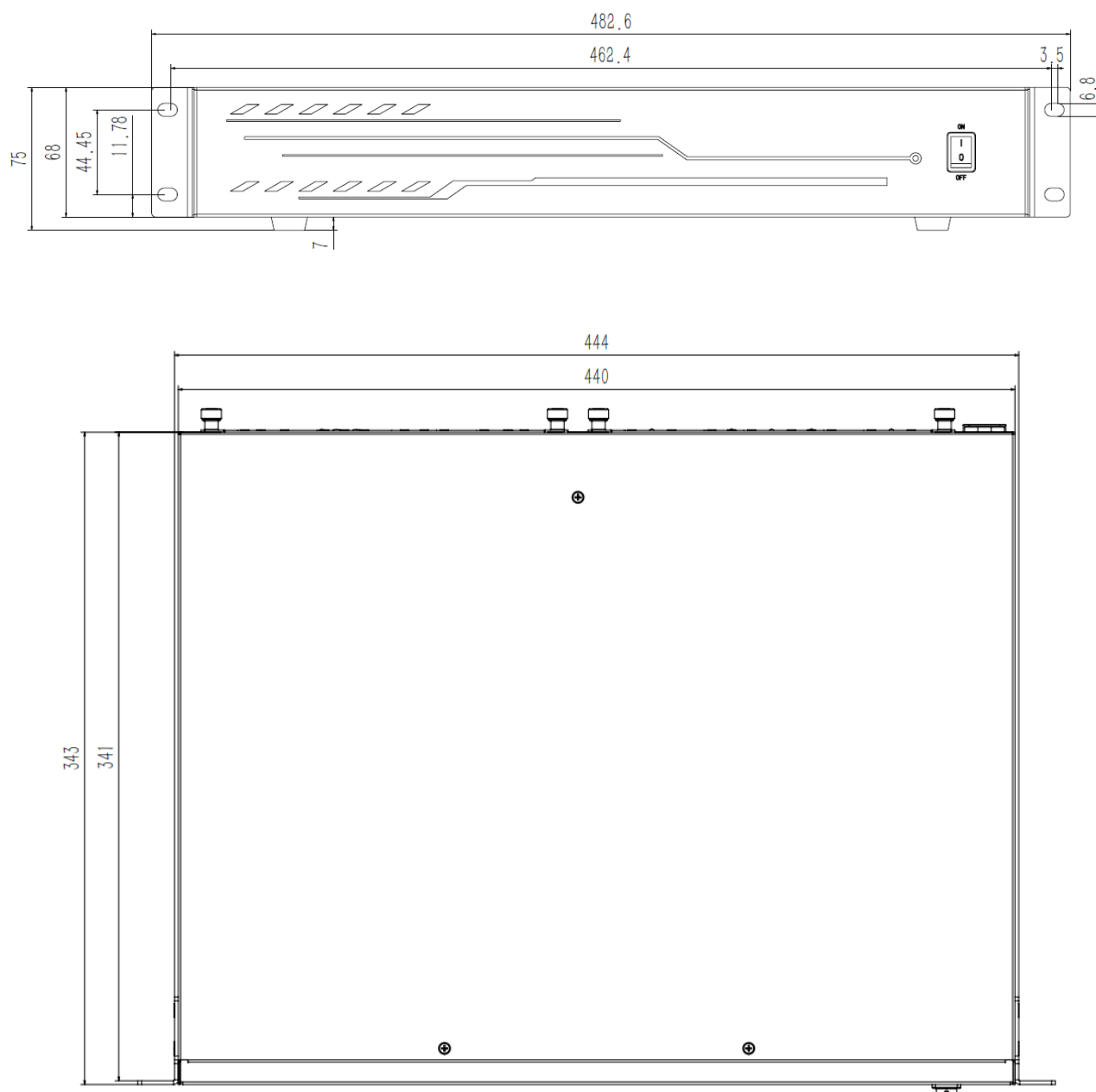
		
KEx_4×HDMI1.3 Output board		
Output signal type	HDMI1.3	
Video output format	RGB444, YCbCr444, YCbCr422	
Load capacity	The maximum load capacity of a single port is 2.6 million pixels; it supports custom output resolution, with a maximum width of 4096 pixels and a maximum height of 4096 pixels.	
Output signal level	TMDS /CML	
Impedance	difference 100ohm	

Power	5W
Other	Support accompanying audio
	
KEx_8×HDMI1.3 Output board	
Output signal type	HDMI1.3
Video output format	RGB444, YCbCr444, YCbCr422
Load capacity	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.
Output signal level	TMDS /CML
impedance	difference 100ohm
Power	10W
Other	Support accompanying audio

Machine specifications

Model	KE0
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°C, 0%RH ~ 80%RH, No condensation
Storage environment	-20°C~65°C, 0%RH ~ 95%RH, No condensation
Dimensions	482.6mm×358.7mm×139.5mm (L×W×H)
Net weight	5KG
Gross weight	6KG

Product Size



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

Application scenarios

