



SE14

Splice Server

Specification

Version: V1.0.1

Release date: March 2024

Update History

Document Version	Release Data	Revision Notes
V1.0.0	2024-02-01	First edition released
V1.0.1	2024-03-26	Update the silkscreen of the 4K board and the rear panel diagram of the complete machine Optimize the functional description of echo and monitoring

Overview

SE14 splicing server is a professional video processing and control equipment, pure hardware FPGA design architecture, all boards adopt modular design, with comprehensive input and output interfaces, and can flexibly configure input and output boards according to different project application requirements. It can be widely used in TV stations, dispatching rooms, command centers, exhibition halls, conference rooms, stage performances, data centers, multi-function halls and other scenarios.

SE14 splicing server supports 8K ultra-high-definition video input and output, supports output rotation, multi-screen and multi-layer management, input and output EDID management, supports input preview and output echo, supports 3D output, supports Genlock genlock, and meets various and complex requirements. project needs.

Features

14U chassis flexible expansion, super load

- The single board supports 8 channels of 2K@60Hz.
- The single board supports 2 channels of 4K@60Hz input, and supports splicing input up to 8K×2K@60Hz.
- The single board supports 2 channels of 4K@60Hz splicing output, and supports up to 8K×2K@60Hz load.
- The whole machine supports 160 channels of 2K@60Hz input and 128 channels of 2K@60Hz output at the same time.

8K input, massive layers

- Single channel supports HDMI2.1 or DP1.4 input, and the maximum resolution supports 8K×4K@30Hz.
- Single board supports a maximum of 24 2K@60Hz layers or 12 4K@30Hz layers or 6 4K@60Hz layers.
- Single machine supports a maximum of 192 2K layers.

Web control, convenient and fast

- There is no need to install software, and it is controlled by the web terminal, which is not limited by the operating system and operating platform.
- Simple and fast operation, real-time response, and easy configuration of complex scenarios.
- There is no need for an additional monitoring board, and the Web side supports input real-time preview and output echo.

Multiple management methods, easy management

- Scene management

Different preset parameters can be saved as scenes, and multi-screen scenes and single-screen scenes can be called with one key, and can be easily switched.

- Group Screen Management

It supports up to 8 groups of screen management, and the output resolution of each group of screens can be set separately, which can easily complete the display control of special-shaped screens and complex scenes.

- Pre-Edit Management

The current device output is not affected when the layer is edited.

- Loop management

Support input source patrolling, multi-channel input source timing switching.

Support scene patrol to meet unsupervised application scenarios.

Diversified display, rich visual

- Input source logo

Characters are embedded in each input signal, the input signal is identified, and the embedded characters are displayed while the input signal is displayed on the screen.

- Scrolling subtitles

Text can be superimposed on the layer, and subtitles can be displayed statically or scrolled dynamically. Users can adjust the background color and scrolling of subtitles.

Style, etc. can be set, and a single screen supports up to 8 subtitles.

- Seamless switching

When switching the signal of the layer or calling the plan, there is no black screen, no flicker, and no freeze during the whole process.

Intelligent monitoring and backup, stable and reliable

- Hardware real-time monitoring

Support hardware monitoring, including real-time monitoring of hardware module temperature and voltage, firmware version, operating status, fan speed, etc.

- Support remote upgrade

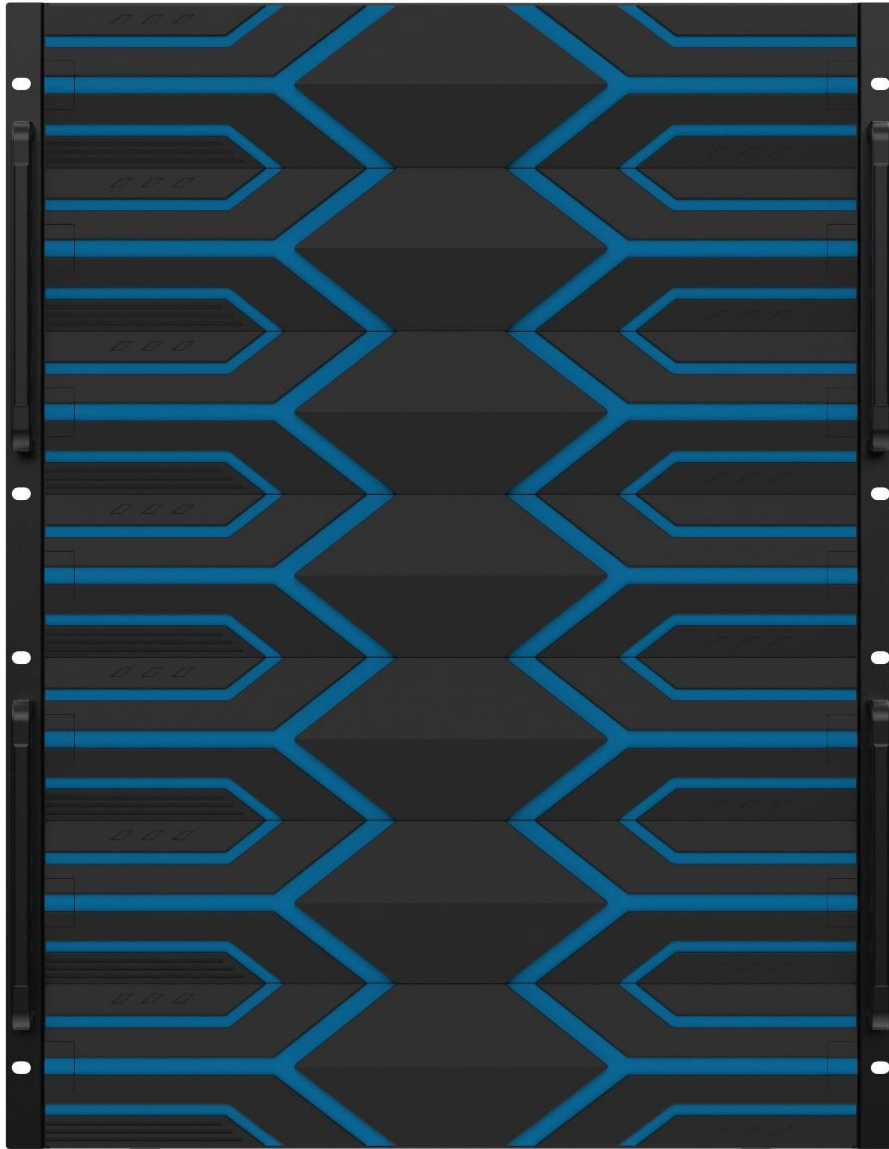
The program can be upgraded remotely, and the system maintenance is simple.

- Support input module, output module and control module hot backup

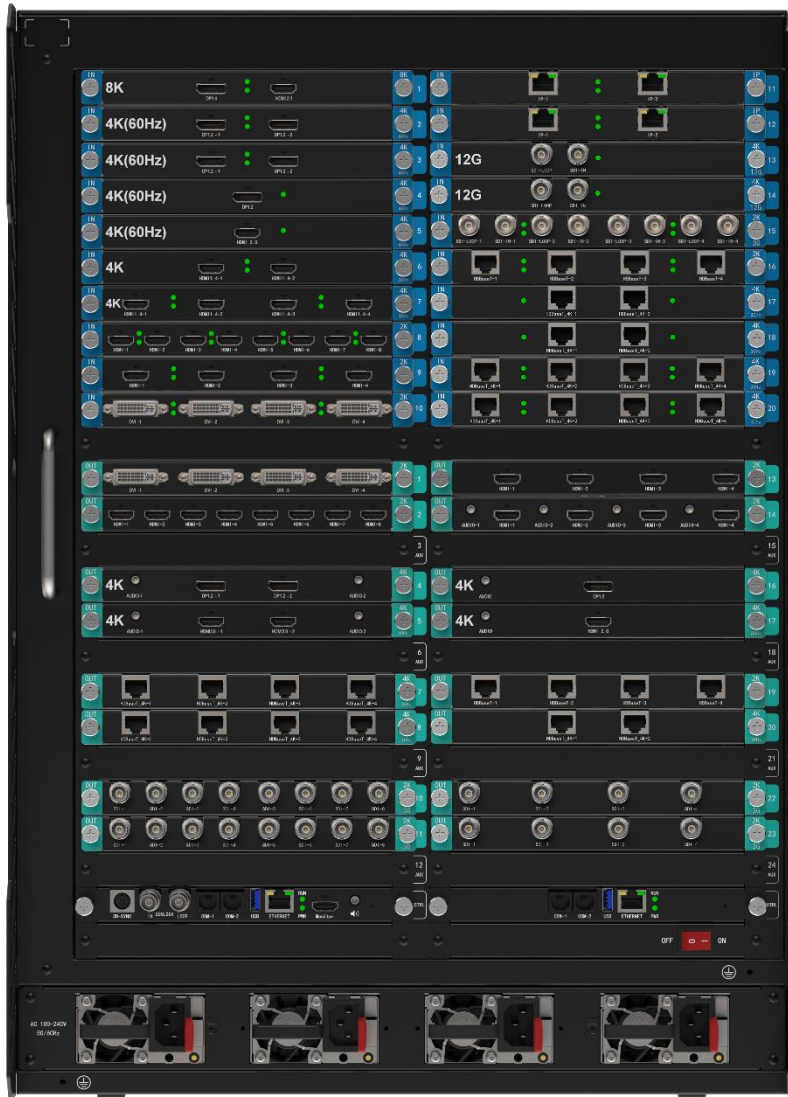
Automatic switching in case of failure, double guarantee of system operation, switching process does not affect equipment operation.

Appearance

Front panel







Rear panel



Note:



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.
 -  **AUX** The marked card slots can be installed with some input boards or control boards.
 -  **CTRL** The marked card slot is the control board card slot, and only the control board card can be installed.
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Product Specifications

Input board introduction

SEx_4×DVI input board	
Performance parameters	 <p>DVI input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 4 channels DVI ● 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 <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p><small>*The first column of lights from left to right indicates DVI-1 on the upper side and DVI-2 on the lower side; Similarly, the second column of lights indicates DVI-3 on the upper side and DVI-4 on the lower side.</small></p>
SEx_4×HDMI1.3 input board	
Performance parameters	 <p>HDMI 1.3 input</p> <ul style="list-style-type: none"> ● 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 <p>Specifications</p>

	<ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p>*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.</p>
SEx_8×HDMI1.3 input board	
Performance parameters	 <p>HDMI 1.3 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 8 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 <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p>*From left to right, the first column of lights 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. The third column of lights indicates HDMI-5 on the upper side and HDMI-6 on the lower side; The fourth column of lights indicates HDMI-7 on the upper side and HDMI-8 on the lower side.</p>
SEx_4×3G-SDI input board	
Performance parameters	 <p>3G-SDI input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 4 channels 3G-SDI ● Maximum input resolution: 1920 × 1080@60Hz

- Video source standards: ST-424 (3G), ST-292 (HD), and SMPTE 259 SD
- Compatible with HD-SDI and SD-SDI standards
- Support loop, SDI loop interface corresponds one-to-one with input interface
- Support 1080i/576i/480i de interlacing
- Not supporting setting input resolution

Specifications

- Input signal level: TMDS /CML
- Impedance: Coaxial 75ohm
- Power: 10W

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 SDI-1 on the upper side and SDI-2 on the lower side; Similarly, the second column of lights indicates SDI-3 on the upper side and SDI-4 on the lower side.

SEx_2×HDMI1.4 input board



HDMI 1.4 input

- Number of input interfaces: 2 channels HDMI 1.4
- Maximum input resolution: 4096×2160@30Hz
- Custom resolution: Limit width 4096 (4096×2160@30Hz)
Limit height 4096 (2000×4096@30Hz)
- Video input format: RGB444, YCbCr444, YCbCr422
- Support audio

Specifications

- Input signal level: TMDS /CML
- Impedance: Difference 100ohm
- Power: 5W

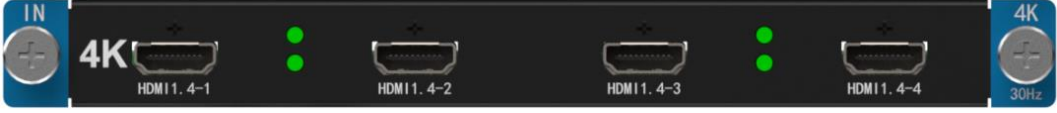

Status LEDs



- On: The power supply of the device is normal
- Off: Abnormal power supply of the device



*From left to right, the first column of lights indicates HDMI1.4-1 on the upper side and HDMI1.4-2 on the lower side.

SEx_4×HDMI1.4 input board



Performance parameters

Performance parameters	 <p>HDMI 1.4 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 4 channels HDMI 1.4 ● Maximum input resolution: 4096×2160@30Hz ● Custom resolution: Limit width 4096 (4096×2160@30Hz) Limit height 4096 (2000×4096@30Hz) ● Video input format: RGB444, YCbCr444, YCbCr422 ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 10W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p>*From left to right, the first column of lights indicates HDMI1.4-1 on the upper side and HDMI1.4-2 on the lower side. Similarly, the second column of lights indicates HDMI1.4-3 on the upper side and HDMI1.4-4 on the lower side.</p>
	SEx_4×HDBaseT_2K input board
Performance parameters	 <p>HDBaseT_2K input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 4 channels RJ45 ● Maximum input resolution: 2048×1152@60Hz ● Custom resolution: Limit width 2048 (2048×1152@60Hz) Limit height 2048 (1152×2048@60Hz) ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 20W ● Transmission distance: maximum 100 meters (Category 6 twisted pair)

	<p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p>*From left to right, the first column of lights indicates HDBaseT-1 on the upper side and HDBaseT-2 on the lower side. Similarly, the second column of lights indicates HDBaseT-3 on the upper side and HDBaseT-4 on the lower side.</p>
SEx_2×HDBaseT_4K30 input board	
Performance parameters	 <p>HDBaseT_4K30 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 2 channels RJ45 ● Maximum input resolution: 4096×2160@30Hz ● Custom resolution: Limit width 4096 (4096×2160@30Hz) Limit height 4096 (2160×4096@30Hz) ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 10W ● Transmission distance: maximum 100 meters (Category 6 twisted pair) <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p>*From left to right, the first column of lights indicates HDBaseT_4K-1 on the upper side and HDBaseT_4K-2 on the lower side.</p>
SEx_4×HDBaseT_4K30 input board	
Performance parameters	 <p>HDBaseT_4K30 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 2 channels RJ45 ● Maximum input resolution: 4096×2160@30Hz ● Custom resolution: Limit width 4096 (4096×2160@30Hz) Limit height 4096 (2160×4096@30Hz) ● Support audio

	<p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 20W ● Transmission distance: maximum 100 meters (Category 6 twisted pair) <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p>*From left to right, the first column of lights indicates HDBaseT_4K -1 on the upper side and HDBaseT_4K -2 on the lower side. Similarly, the second column of lights indicates HDBaseT_4K -3 on the upper side and HDBaseT_4K -4 on the lower side.</p>
SEx_1×12G-SDI input board	
Performance parameters	 <p>12G-SDI input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 1 channel 12G-SDI ● Maximum input resolution: 4096 × 2160@60Hz ● Video source standards: ST-2082-1 (12G), ST-2081-1 (6G), ST-424 (3G), ST-292 (HD), and SMPTE 259 SD ● Compatible with 6G-SDI, 3G-SDI, HD-SDI, and SD-SDI standards ● Supporting ring out ● Support 1080i/576i/480i de interlacing ● Not supporting setting input resolution <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS/CML ● Impedance: Coaxial 75ohm ● Power consumption: 10W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device
SEx_1×HDMI2.0 input board	
Performance parameters	

	<p>HDMI 2.0 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 1 channel HDMI 2.0 ● Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video input format: RGB444, YCbCr444, YCbCr422 ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device
SEx_1×DP1.2 input board	
Performance parameters	<div data-bbox="375 1019 1436 1131" style="text-align: center;"> </div> <p>DP 1.2 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 1 channel DP 1.2 ● Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video input format: RGB444, YCbCr444, YCbCr422 ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device
SEx_2×HDMI2.0 input board	


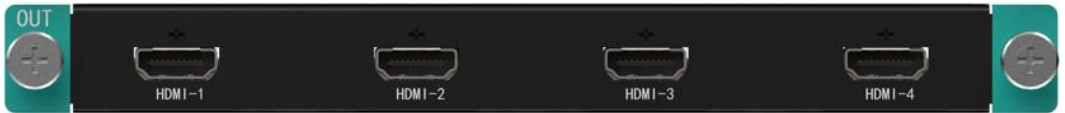
Performance parameters	 <p>HDMI 2.0 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 2 channels HDMI 2.0 ● Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video input format: RGB444, YCbCr444, YCbCr422 ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 10W <p>Status LEDs</p> <ul style="list-style-type: none"> ● On: The power supply of the device is normal ● Off: Abnormal power supply of the device <p>*From left to right, the first column of lights indicates HDMI2.0-1 on the upper side and HDMI2.0-2 on the lower side.</p>
	SEx_2×DP1.2 input board
Performance parameters	 <p>DP 1.2 input</p> <ul style="list-style-type: none"> ● Number of input interfaces: 2 channels DP 1.2 ● Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video input format: RGB444, YCbCr444, YCbCr422 ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 10W <p>Status LEDs</p>




- On: The power supply of the device is normal


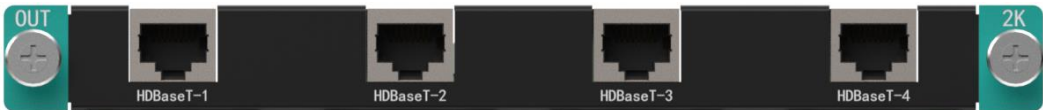
- Off: Abnormal power supply of the device

*From left to right, the first column of lights indicates DP1.2-1 on the upper side and DP1.2-2 on the lower side.

Output board introduction


SEx_4×DVI output board	
Performance parameters	 <p>DVI output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 4 channels DVI ● 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 <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W
SEx_4×HDMI1.3 output board	
Performance parameters	 <p>HDMI 1.3 output</p> <ul style="list-style-type: none"> ● 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) ● Video output format: RGB444, YCbCr444, YCbCr422 ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm

	<ul style="list-style-type: none"> ● Power: 5W
SEx_4×HDMI1.3_AUDIO output board	
Performance parameters	 <p>HDMI 1.3 output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 4 channels HDMI 1.3, 4 channels 3.5mm audio output ● 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 <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W
SEx_8×HDMI1.3 output board	
Performance parameters	 <p>HDMI 1.3 output</p> <ul style="list-style-type: none"> ● 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 <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 10W
SEx_4×3G-SDI output board	
Performance parameters	


	<p>3G-SDI output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 4 channels 3G-SDI ● Maximum output resolution: 1920 × 1080@60Hz ● Output video source standards: ST-424 (3G), ST-292 (HD), and SMPTE 259 SD ● Compatible with HD-SDI and SD-SDI standards ● Support 1080i deinterlacing output ● Supporting output timing selection <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Coaxial 75ohm ● Power: 5W
SEx_8×3G-SDI output board	
Performance parameters	 <p>3G-SDI output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 8 channels 3G-SDI ● Maximum output resolution: 1920 × 1080@60Hz ● Output video source standards: ST-424 (3G), ST-292 (HD), and SMPTE 259 SD ● Compatible with HD-SDI and SD-SDI standards ● Support 1080i deinterlacing output ● Supporting output timing selection <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Coaxial 75ohm ● Power: 10W
SEx_4×HDBaseT_2K output board	
Performance parameters	 <p>HDBaseT_2K output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 4 channels RJ45 ● Maximum output resolution: 2048×1152@60Hz ● Custom resolution: Limit width 4096 (4096×616@60Hz) Limit height 4096 (480×4096@60Hz)



	<ul style="list-style-type: none"> ● Video output format: RGB444, YCbCr444, YCbCr422 ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 20W ● Transmission distance: maximum 100 meters (Category 6 twisted pair)
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SEx_2×HDBaseT_4K30 output board

	 <p>HDBaseT_4K output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 2 channels RJ45 ● Maximum output resolution: 4096×2160@30Hz ● Custom resolution: Limit width 4096 (4096×2160@30Hz) Limit height 4096 (2160×4096@30Hz) ● Video output format: RGB444, YCbCr444, YCbCr422 ● Downward compatibility with HDBaseT_2K ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 20W ● Transmission distance: maximum 100 meters (Category 6 twisted pair)
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SEx_4×HDBaseT_4K30 output board



	 <p>HDBaseT_4K output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 4 channels RJ45 ● Maximum output resolution: 4096×2160@30Hz ● Custom resolution: Limit width 4096 (4096×2160@30Hz) Limit height 4096 (2160×4096@30Hz) ● Video output format: RGB444, YCbCr444, YCbCr422 ● Downward compatibility with HDBaseT_2K
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	<ul style="list-style-type: none"> ● Support audio <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 20W ● Transmission distance: maximum 100 meters (Category 6 twisted pair)
SEx_1×HDMI2.0 output board	
Performance parameters	 <p>HDMI 2.0 output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 1 channel HDMI 2.0 output, 1 channel 3.5mm audio output ● Maximum output resolution: 4096 × 2160@60Hz Or 7680 × 1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video output formats: RGB444, YCbCr444, YCbCr422 ● Supporting on the go audio ● Support 3.5mm audio output <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W
SEx_1×DP1.2 output board	
Performance parameters	 <p>DP 1.2 output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 1 channel DP1.2 output, 1 channel 3.5mm audio output ● Maximum output resolution: 4096 × 2160@60Hz Or 7680 × 1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video output formats: RGB444, YCbCr444, YCbCr422 ● Supporting on the go audio ● Support 3.5mm audio output

	<p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 5W
SEx_2×HDMI2.0 output board	
Performance parameters	 <p>The image shows the SE14 SEx_2×HDMI2.0 output board. It features a black PCB with four output ports: two 3.5mm audio ports (AUDIO-1 and AUDIO-2) and two HDMI 2.0 ports (HDMI2.0 - 1 and HDMI2.0 - 2). The board is labeled with '4K' and '60Hz' on both ends, indicating its video capabilities.</p> <p>HDMI 2.0 output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 2 channels HDMI 2.0 output, 2 channels 3.5mm audio output ● Maximum output resolution: 4096 × 2160@60Hz Or 7680 × 1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video output formats: RGB444, YCbCr444, YCbCr422 ● Supporting on the go audio ● Support 3.5mm audio output <p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 10W <p>*AUDIO-1 audio output is bound to the HDMI2.0-1 output port, while AUDIO-2 audio output is bound to the HDMI2.0-2 output port.</p>
SEx_2×DP1.2 output board	
Performance parameters	 <p>The image shows the SE14 SEx_2×DP1.2 output board. It features a black PCB with four output ports: two 3.5mm audio ports (AUDIO-1 and AUDIO-2) and two DP 1.2 ports (DP1.2 - 1 and DP1.2 - 2). The board is labeled with '4K' and '60Hz' on both ends, indicating its video capabilities.</p> <p>DP 1.2 output</p> <ul style="list-style-type: none"> ● Number of output interfaces: 2 channels DP1.2 output, 2 channels 3.5mm audio output ● Maximum output resolution: 4096 × 2160@60Hz Or 7680 × 1200@60Hz ● Custom resolution: Limit width 8192 (8192×1080@60Hz) Limit height 8192 (1000×8192@60Hz) ● Video output formats: RGB444, YCbCr444, YCbCr422 ● Supporting on the go audio ● Support 3.5mm audio output

	<p>Specifications</p> <ul style="list-style-type: none"> ● Input signal level: TMDS /CML ● Impedance: Difference 100ohm ● Power: 10W <p>*AUDIO-1 audio output is bound to the DP1.2-1 output port, while AUDIO-2 audio output is bound to the DP1.2-2 output port.</p>
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Control board introduction

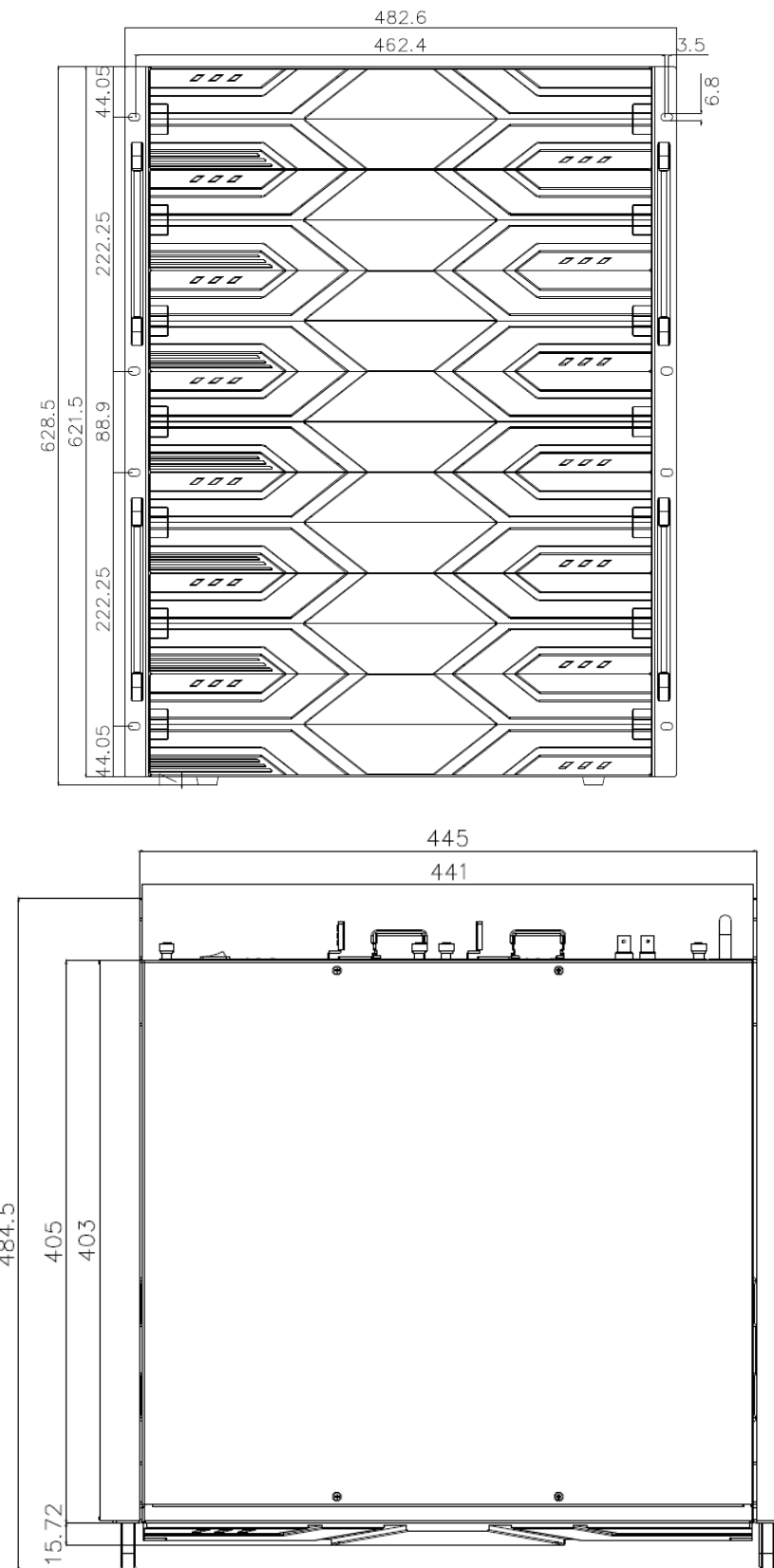
SEx_Control board	
Performance parameters	 <p>Interface parameters</p> <ul style="list-style-type: none"> ● COM-1: RS232 control port, can be connected with the central control system ● COM-2: RS232 control port, can be connected with central control system; can be used as COM-1 loop-out port ● USB: 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 and preview <p>Status LEDs:</p> <ul style="list-style-type: none"> ● RUN <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - On: The power supply of the device is normal - Off: Abnormal power supply of the device
SEx_Enhanced Control board	
Performance parameters	 <p>Interface parameters</p> <ul style="list-style-type: none"> ● 3D-SYNC: 3D sync signal output interface ● GENLOCK: External sync signal source

	<ul style="list-style-type: none"> - IN: External signal source input - LOOP: External signal source synchronous output ● 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 and preview ● Monitor: HDMI echo monitor interface. Output resolution: 1920 × 1080@60Hz ●  Audio output interface: you can set a certain input source to output audio to the large screen speaker or perform audio monitoring in the control room <p>Status LEDs:</p> <ul style="list-style-type: none"> ● RUN <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - On: The power supply of the device is normal - Off: Abnormal power supply of the device
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Machine Specifications

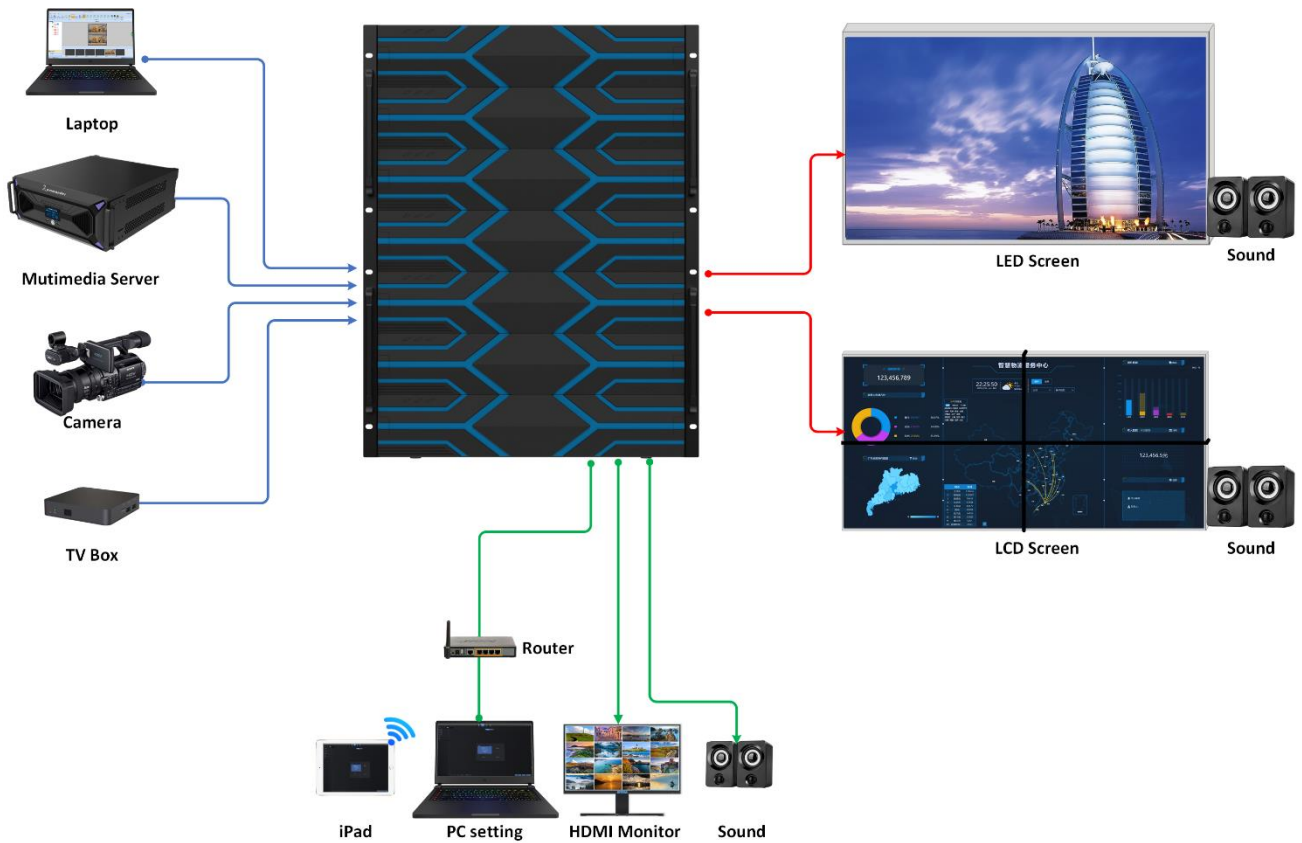
Model	SE14
Chassis Specifications	14U
The maximum supported input cards	20 pcs
The maximum support input	160 pcs
The maximum number of supported output cards installed	24 pcs
Maximum support output channels	128 pcs
Maximum number of layers	192
Input power	110-240V~, 47-63Hz, 1A
Overall power consumption	600W
Working environment	0~45°C, 0%RH ~ 80%RH, non-condensing
Storage environment	-20°C~65°C, 0%RH ~ 95%RH, non-condensing
Dimensions	482.6mm×484.5mm×628.5mm (L×W×H)
Net weight	40KG
Gross weight	50KG

Dimensions



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

Application Scenario



Beijing Kystar Technology Co., Ltd.

Professional ultra-high-definition video display and control comprehensive solution provider and operation service provider

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WeChat