KYSTAR®

SE3 Specification

Splicing Server

Version: V2.0.1

Release Date: July 2025

Revision History

Version Number	Brief description of the revised content	Revision Date	Revision ist
V 2.0.1	Optimize function description and specification format Support SEx _1×DP1.4_8K input board , SEx _2×IP input board , SEx _4×VGA input board	2025-07-01	-
V 1.1.2	Updated 4K board silkscreen and rear panel image Optimize the function description about echo and monitoring	2024-03-26	-
V 1.1.1	Update SEx _ 4 x HDMI1.3_AUDIO output board	2024-01-26	-

Product Overview

The SE3 splicing server is a professional video processing and control device featuring a pure hardware FPGA design architecture and a modular design. It offers a comprehensive range of input and output interfaces, allowing for flexible configuration of input and output boards to meet the needs of different project applications. It is widely used in television stations, dispatch rooms, command centers, exhibition halls, conference rooms, stage performances, data centers, and multi-purpose halls.

The SE3 splicing server supports 8K ultra -high-definition video access, multi-screen and multi-layer management, input and output EDID management , input preview, 3D output, and Genlock , meeting diverse and complex project requirements.

Product Certification

CCC , ROHS

Kystar immediately for confirmation or processing. Otherwise, if any legal risks are caused, the customer shall bear them by himself or Kystar shall have the right to seek compensation.

Features

3U chassis with flexible expansion and super load capacity

- A single card supports 8-channel 2K@60Hz input and output.

- The single board supports 2-channel 4K@60H z input and supports input of up to 8K × 2K@60Hz .
- The single-board card supports two-channel 4K@60H z output and a maximum load of 8K × 2K@60Hz .
- The whole machine supports 44 - channel 2K@60Hz input and 40 - channel 2K@60Hz output at the same time.

8K input, massive layers

- Single channel supports DP1.4 input , with a maximum resolution of 8K × 4K @30Hz .
- A single card supports a maximum of 24 2K @60Hz layers, 12 4K @30Hz layers, or 6 4K @60Hz layers.
- A single machine supports up to 48 2K layers .

Innovative architecture, layer sharing

- Unique hardware output partition design, each zone builds an independent layer resource pool to achieve layer resource sharing within the zone .

Web control, convenient and fast

- No software installation is required, it uses web -based control and is not restricted by operating systems or platforms.
- The operation is simple and fast, with real-time response and easy configuration of complex scenarios.

- Real-time preview function can be realized without the need for an external monitoring board .

Multiple management methods , easy management

- Scene Management
  - Different preset parameters can be saved as scenes, supporting one-click call of single-screen scenes and multi-screen scenes for easy switching.
- Group screen management
  - Supports management of up to 8 groups of screens, and each group of screens can customize the output resolution, making it easy to complete complex scene display control.
- Patrol Management
  - Supports scene patrol to meet unmanned application scenarios.

Diverse display , rich visual experience

- Input source logo
  - Characters are embedded in each input signal to identify the input signal, and the screen displays the embedded characters while displaying the input signal.
- Rolling subtitles

- Subtitles can be displayed statically or scrolled dynamically. Users can set the font, subtitle background, scrolling mode, etc.
- A single screen supports up to 8 subtitles.

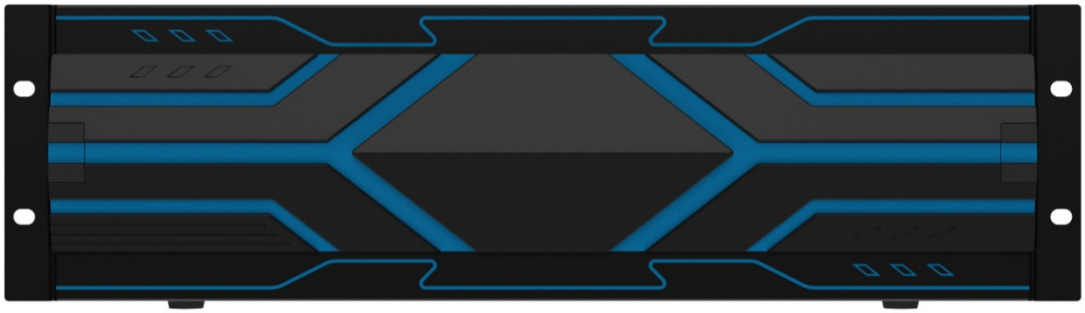
- Seamless switching
  - When switching signals or calling scenes, there is no black screen, no flickering, and no lag during the entire process.

Intelligent monitoring and backup , stable and reliable

- Real-time hardware monitoring
  - Supports hardware monitoring, including real-time monitoring of hardware module temperature and voltage , firmware version, operating status , fan speed , etc.
- Support remote upgrade
  - Program upgrades can be performed remotely, making system maintenance simple.
- Support input module and output module backup
  - Automatic switching in case of failure, double protection of system operation , and the switching process does not affect equipment operation.

Appearance

Front panel appearance



Rear panel appearance

Illustrate:

The machine back panels shown in this article are samples for reference only. Please refer to the actual product purchased.

Rear panel silk screen description:

1 The marked slot is the input slot and can only be used to install input cards.

7 The marked slots are output slots and can only be used to install output cards.

5 AUX CTRL The marked slots can be used to install some input boards or control boards.

CTRL The marked slot is the control board slot and can only be used to install a control board.

Input Board Introduction

SEx _4×DVI Input Board

Performance parameters

DVI input interface

- Number of input interfaces: 4-way DVI
- Maximum input resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 2048 (2 048 × 1152 @ 60 Hz)
  - Maximum height 2048 (1152 × 2048 @ 60 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20

Input card specifications

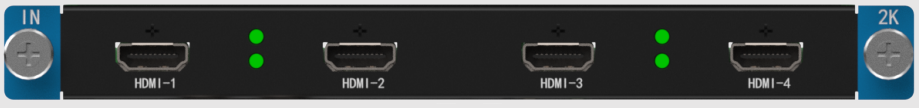
- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 5W

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal
  - *From left to right, the top side of the first column of lights indicates DVI-1 , and the bottom side indicates DVI-2 . Similarly, the top side of the second column of lights indicates DVI-3 , and the bottom side indicates DVI-4 .

SEx _4×HDMI1.3 input board

Performance Parameters



HDMI 1.3 input interface

- Number of input interfaces: 4 HDMI1.3
- Maximum input resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 2048 (2 048 × 1152 @ 60 Hz)
  - Maximum height 2048 (1152 × 2048 @ 60 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20

Input card specifications

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

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the top of the first column of lights indicates HDMI-1, and the bottom indicates HDMI-2. Similarly, the top of the second column of lights indicates HDMI-3, and the bottom indicates HDMI-4 .

SEx _8×HDMI1.3 input board

Performance parameters

HDMI 1.3 input interface

- Number of input interfaces: 8-way HDMI1.3
- Maximum input resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 2048 (2 048 × 1152 @ 60 Hz)
  - Maximum height 2048 (1152 × 2048 @ 60 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10 W

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the first column of lights indicates HDMI-1 on the top and HDMI-2 on the bottom ; the second column of lights indicates HDMI-3 on the top and HDMI-4 on the bottom ; the third column of lights indicates HDMI-5 on the top and HDMI-6 on the bottom; the fourth column of lights indicates HDMI-7 on the top and HDMI-8 on the bottom .

SEx _4 × 3G-SDI Input Board

Performance parameters

3G-SDI input interface

- Number of input interfaces: 4 -channel 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-out, S DI loop-out interface corresponds to the input interface one to one
- Support 1080i/576i/480i deinterlacing
- Custom input resolution is not supported

Input card specifications

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

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the top of the first column of lights indicates SDI -1 , and the bottom indicates SDI -2 . Similarly, the top of the second column of lights indicates SDI -3 , and the bottom indicates SDI -4 .

SEx _4 × VGA input board

Performance parameters

Input card specifications

- Number of input interfaces: 4 -way VGA
- Maximum input resolution: 1920×1200@ 60Hz
- Video input format: RGB444
- Power consumption: 10W

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the top of the first column of lights indicates VGA-1 , and the bottom indicates VGA-2 . Similarly, the top of the second column of lights indicates VGA-3 , and the bottom indicates VGA-4 .

SEx _2 ×IP input board

Performance parameters

Input card specifications

- of input interfaces: 2 RJ14
- Supported protocols: R TSP

- Support IPC video encoding formats: H.264, H.265
- Supports video encoding with decoder encoder.
  - Supports video decoding of unicast streams.
  - Supports H.264/H.265 YUV420 8-bit video decoding of I and P frames.
- Single card simultaneous decoding performance:
  - 2-way 800W
  - 6-way 400W
  - 12-way 200W
- Power consumption: 10W

Indicator status description

- Steady on: IP decoding function is normal
- Off: IP decoding function is abnormal

IP-1 on the top and IP-2 on the bottom

SEx _2 ×HDMI 1.4 input board

Performance parameters

HDMI 1.4 input interface

- Number of input interfaces: 2 -way HDMI 1.4
- Maximum input resolution: 4096×2160@30Hz
- Custom resolution:
  - Maximum width 4096 (4096 × 2160@30Hz)
  - Maximum height 4096 (2000 × 4096 @ 30 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm

- Power consumption: 5W

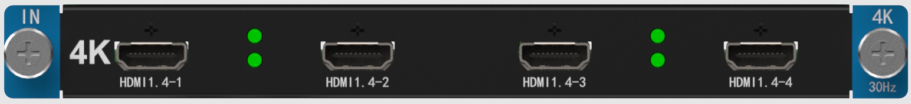
Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

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

SEx _4 × HDMI 1.4 input board

Performance parameters



HDMI 1.4 input interface

- Number of input interfaces: 4 -way HDMI 1.4
- Maximum input resolution: 4096×2160@30Hz
- Custom resolution:
  - Maximum width 4096 (4096 × 2160@30Hz)
  - Maximum height 4096 (2000 × 4096 @ 30 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10W

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the top of the first row of lights indicates HDMI 1.4-1 , and the bottom indicates HDMI 1.4-2 . Similarly, the top of the second row of lights indicates HDMI 1.4-3 , and the bottom indicates HDMI 1.4-4 .

SEx _4 ×HD Base T_2K input board

Performance parameters

HDBase T_2K input interface

- of input interfaces: 4 RJ45 interfaces
- Maximum input resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 2048 (2 048 × 1152 @ 60 Hz)
  - Maximum height 2048 (1152 × 2048 @ 60 Hz)
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 20W
- Transmission distance: Maximum 100 meters (category 6 twisted pair)

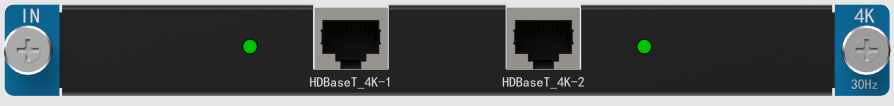
Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the top of the first column of lights indicates HDB enzyme T-1 , and the bottom indicates HDB enzyme T-2 . Similarly, the top of the second column of lights indicates HDB enzyme T-3 , and the bottom indicates HDB enzyme T-4 .

SEx _2 ×HD Base T_4K30 input board

Performance parameters



HDBaseT_4K30 input interface

- of input interfaces: 2 RJ45 interfaces

- Maximum input resolution: 4096×2160@30Hz
- Custom resolution:
  - Maximum width 4096 (4096 × 2160@30Hz)
  - Maximum height 4096 (2000 × 4096 @ 30 Hz)
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10W
- Transmission distance: Maximum 100 meters (category 6 twisted pair)

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

HDB enzyme T-1 on the upper side and HDB enzyme T-2 on the lower side .

SEx _4 ×HD Base T _ 4K30 Input Board

Performance parameters

HDBaseT_4K30 input interface

- of input interfaces: 4 RJ45 interfaces
- Maximum input resolution: 4096×2160@30Hz
- Custom resolution:
  - Maximum width 4096 (4096 × 2160@30Hz)
  - Maximum height 4096 (2000 × 4096 @ 30 Hz)
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm

- Power consumption: 20W
- Transmission distance: Maximum 100 meters (category 6 twisted pair)

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the top of the first column of lights indicates HDBase T_4K -1 , and the bottom indicates HDBase T_4K -2 . Similarly, the top of the second column of lights indicates HDBase T_4K -3 , and the bottom indicates HDBase T_4K -4 .

SEx _1 × 12G-SDI Input Board

Performance parameters

12G-SDI input interface

- 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
- Support loop-out
- Support 1080i/576i/480i deinterlacing
- Custom input resolution is not supported

Input card specifications

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

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

SEx _1 × HDMI 2.0 input board

Performance parameters

HDMI 2.0 input interface

- Number of input interfaces: 1 -way HDMI 2.0
- Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz
- Custom resolution:
  - Maximum width 8192 (8192 × 1080@60Hz)
  - Maximum height 8192 (1000 × 8192 @ 60 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20
- Support channel-associated audio

Input card specifications

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

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

SEx _1 × DP1.2 input board

Performance parameters

DP 1.2 input interface

- Number of input interfaces: 1 DP 1.2
- Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz
- Custom resolution:
  - Maximum width 7680 (7680 × 1200@60Hz)

- Maximum height 7680 (1080 × 7680 @ 60 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20
- Support channel-associated audio

Input card specifications

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

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

SEx _2 × HDMI2.0 input board

Performance parameters

HDMI 2.0 input interface

- Number of input interfaces: 2 -way HDMI 2.0
- Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz
- Custom resolution:
  - Maximum width 8192 (8192 × 1080@60Hz)
  - Maximum height 8192 (1000 × 8192 @ 60 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10W

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

*From left to right, the first column of lights, the upper side indicates HDMI2.0-1 , and the lower side indicates HDMI2.0-2 .

SEx _2 × DP1.2 input board

Performance parameters

DP 1.2 input interface

- Number of input interfaces: 2 -way DP 1.2
- Maximum input resolution: 4096×2160@60Hz or 7680×1200@60Hz
- Custom resolution:
  - Maximum width 7680 (7680 × 1200@60Hz)
  - Maximum height 7680 (1080 × 7680 @ 60 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10W

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

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

SEx _1 × DP1.4 _ 8K input board

Performance parameters

DP1.4 input interface

- of input interfaces: 1 DP1.4
- Maximum input resolution: 7680 x 4320@30Hz or 7680 x 2160@60Hz or 3840 x 2160@ 120Hz
- Custom resolution:
  - Maximum width 15360 (15360 × 1080@30Hz)
  - Maximum height 15360 (1000 × 15360 @ 30 Hz)
- Video input formats: RGB444, YCbCr444 , 4x22 , 4x20
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 1.5W

Indicator status description

- Steady on: Input signal is connected normally
- Off: Input is not connected or input is abnormal

Output Board Introduction

SEx _4×DVI output board

Performance parameters

DVI output interface

- Output interface quantity: 4 -way DVI
- Maximum output resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 4096 (4096×616@60Hz)

	- Maximum height 4096 (480×4096@60Hz) ● Video output format: RGB444 ● Support channel-associated audio **Output card specifications** ● Output signal level: TMDS /CML ● Impedance: Differential 100ohm ● Power consumption: 5W
SEx _4×HDMI1.3 output board	
Performance parameters	 **HDMI 1.3 output interface** ● Output interface quantity: 4 -way HDMI 1.3 ● Maximum output resolution: 2048×1152@60Hz ● Custom resolution: - Maximum width 4096 (4096×616@60Hz) - Maximum height 4096 (480×4096@60Hz) ● Video output format: RGB444 ● Support channel-associated audio **Output card specifications** ● Output signal level: TMDS /CML ● Impedance: Differential 100ohm ● Power consumption: 5 W
SEx _4×HDMI1.3 _AUDIO output board	
Performance parameters	 **HDMI 1.3 output interface** ● Output interface quantity: 4- way HDMI 1.3 , 4- way 3.5 mm audio output

- Maximum output resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 4096 (4096×616@60Hz)
  - Maximum height 4096 (480×4096@60Hz)
- Video output format: RGB444
- Support channel-associated audio

Output card specifications

- Output signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 5 W

SEx _8×HDMI1.3 output board

Performance parameters

HDMI 1.3 output interface

- Output interface quantity: 8 -way HDMI 1.3
- Maximum output resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 4096 (4096×616@60Hz)
  - Maximum height 4096 (480×4096@60Hz)
- Video output format: RGB444
- Support channel-associated audio

Output card specifications

- Output signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10W

SEx _4×3G-SDI Output Board

Performance parameters

	3G-SDI output interface ● Output interface quantity: 4 -channel 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 deinterlaced output ● Support output timing selection **Output card specifications** ● Output signal level: TMDS /CML ● Impedance: Coaxial 75ohm ● Power consumption: 5W
SEx _8×3G-SDI Output Board	
Performance parameters	 **3G-SDI output interface** ● Output interface quantity: 8 -channel 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 deinterlaced output ● Support output timing selection **Output card specifications** ● Output signal level: TMDS /CML ● Impedance: Coaxial 75ohm ● Power consumption: 10W
SEx _4×HDBaseT_2K Output Board	

Performance parameters

HDBase T_2K output interface

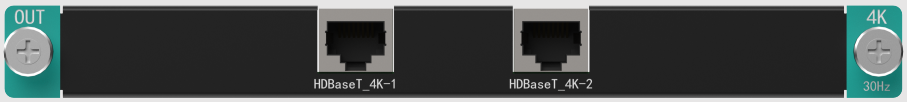
- of input interfaces: 4 RJ45 interfaces
- Maximum output resolution: 2048×1152@60Hz
- Custom resolution:
  - Maximum width 4096 (4096×616@60Hz)
  - Maximum height 4096 (480×4096@60Hz)
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 20W
- Transmission distance: Maximum 100 meters (category 6 twisted pair)

SEx _2×HDBaseT_4K30 Output Board

Performance parameters



HDBase T_4K output interface

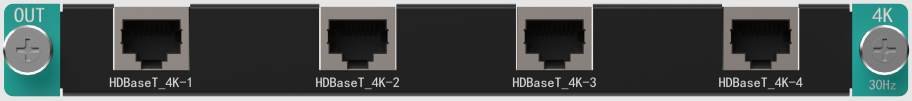
- of input interfaces: 2 RJ45 interfaces
- Maximum output resolution: 4096×2160@30Hz
- Custom resolution:
  - Maximum width 4096 (4096×2160@30Hz)
  - Maximum height 4096 (2160×4096@30Hz)
- Backward compatible with HDBaseT_2K
- Support channel-associated audio

Input card specifications

- Input signal level: TMDS /CML
- Impedance: Differential 100ohm

	• Power consumption: 10W • Transmission distance: Maximum 100 meters (category 6 twisted pair)

SEx _4×HDBaseT_4K30 Output Board

Performance parameters	 **HDBase T_4K output interface** • of input interfaces: 4 RJ45 interfaces • Maximum output resolution: 4096×2160@30Hz • Custom resolution: - Maximum width 4096 (4096×2160@30Hz) - Maximum height 4096 (2160×4096@30Hz) • Backward compatible with HDBaseT_2K • Support channel-associated audio **Input card specifications** • Input signal level: TMDS /CML • Impedance: Differential 100ohm • Power consumption: 20W • Transmission distance: Maximum 100 meters (category 6 twisted pair)

SEx _1×HDMI2.0 output board

Performance parameters	 **HDMI 2.0 output interface** • Output interface quantity: 1- way HDMI 2.0 , 1- way 3.5 mm audio output • Maximum output resolution: 4096×2160@60Hz or 7680×1200@60Hz • Custom resolution: - Maximum width 8192 (8192 × 1080@60Hz) - Maximum height 8192 (1000 × 8192 @ 60 Hz)

- Video output format: RGB444
- Support channel-associated audio
- Support 3.5mm audio output

Output card specifications

- Output signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 5W

SEx _1×DP1.2 output board

Performance parameters

DP 1.2 output interface

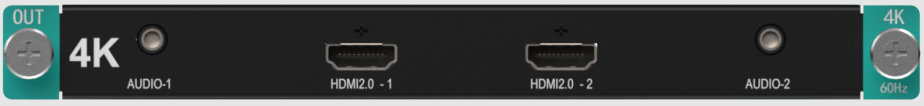
- Output interface quantity: 1 DP 1.2 , 1 3.5 mm audio output
- Maximum output resolution: 4096×2160@60Hz or 7680×1200@60Hz
- Custom resolution:
  - Maximum width 7680 (7680 × 1200@60Hz)
  - Maximum height 7680 (1000 × 7680 @ 60 Hz)
- Video output format: RGB444
- Support channel-associated audio
- Support 3.5mm audio output

Output card specifications

- Output signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 5W

SEx _2×HDMI2.0 output board

Performance parameters



HDMI 2.0 output interface

- Output interface quantity: 2- way HDMI 2.0 , 2- way 3.5 mm audio

output

- Maximum output resolution: 4096×2160@60Hz or 7680×1200@60Hz
- Custom resolution:
  - Maximum width 8192 (8192 × 1080@60Hz)
  - Maximum height 8192 (1000 × 8192 @ 60 Hz)
- Video output format: RGB444
- Support channel-associated audio
- Support 3.5mm audio output

Output card specifications

- Output signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10W

SEx _2×DP1.2 output board

Performance parameters

DP 1.2 output interface

- Output interface quantity: 2- way DP 1.2 , 2 -way 3.5 mm audio output
- Maximum output resolution: 4096×2160@60Hz or 7680×1200@60Hz
- Custom resolution:
  - Maximum width 7680 (7680 × 1200@60Hz)
  - Maximum height 7680 (1000 × 7680 @ 60 Hz)
- Video output format: RGB444
- Support channel-associated audio
- Support 3.5mm audio output

Output card specifications

- Output signal level: TMDS /CML
- Impedance: Differential 100ohm
- Power consumption: 10W

Control Board Introduction

SEx _Control Board

Performance parameters

Interface parameters

- COM-1: RS232 control port, can be connected to the central control system
- COM-2: RS232 control port, can be connected to the central control system; can be used as the COM-1 loop-out port
- USB: USB 3.0 port, used for system upgrades only and cannot be used to power other devices.
- ETHERNET: Gigabit Ethernet port, communication interface, connected to control computer, router or switch for Web control and pre-monitoring

Indicator status description

- RUN light status
  - Flashing: The device is starting up
  - Fixed frequency flashing: 1/2S, the system is operating normally
  - No flash or no light: System failure (after the device is turned on)
- PWR light
  - Steady on: The device is powered normally.
  - Off: The device power supply is abnormal.

SEx _ Enhanced Control Card

Performance parameters

Interface parameters

- 3D-SYNC : 3D synchronization signal output interface
- GENLOCK : External synchronization signal source

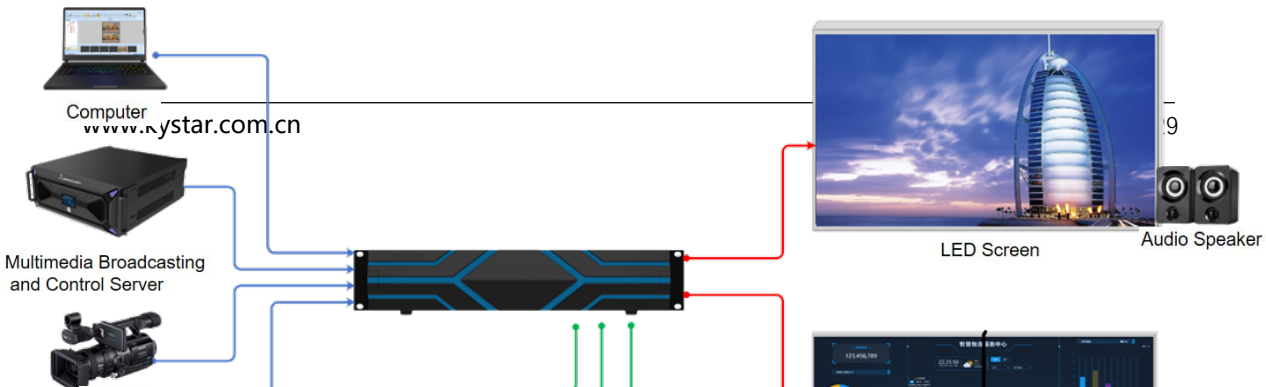
- IN: External signal source input
- LOOP: Synchronous output of external signal source

- COM-1 : RS232 control port, can be connected to the central control system
- COM-2 : RS232 control port, can be connected to the central control system; can be used as COM-1 loop-out port
- USB : USB 3.0 port , used only for system upgrades and cannot be used to power other devices.
- ETHERNET : Gigabit Ethernet port, communication interface, connected to control computer, router or switch for Web control and pre-monitoring
- Monitor : HDMI display interface . Output resolution: 1920×1080@60Hz
- Audio output interface : You can set a certain input source audio output to the large screen speaker or for audio monitoring in the control room

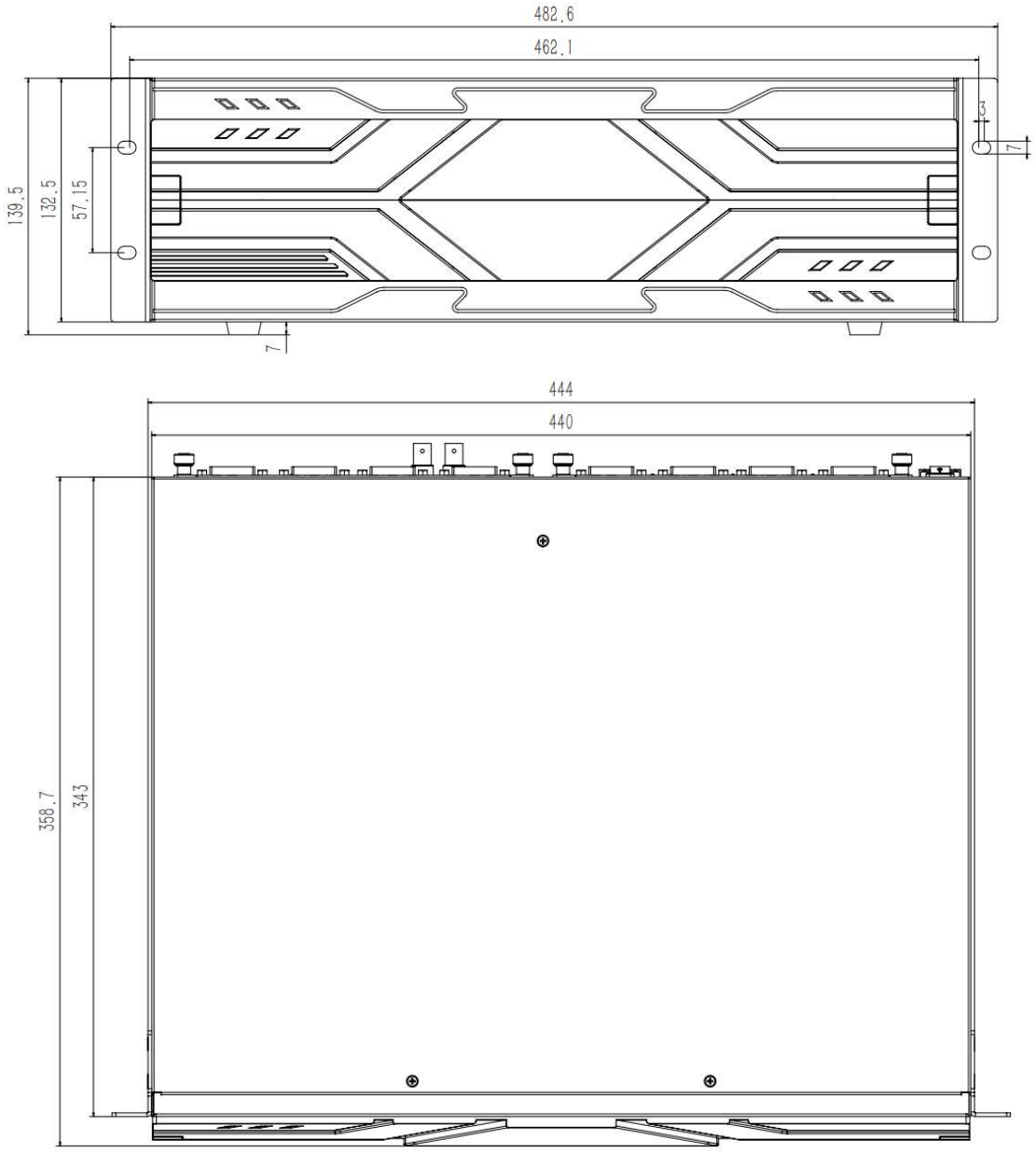
Indicator status description

- RUN light status
  - Flashing: The device is starting up
  - Fixed frequency flashing: 1/2S, the system is operating normally
  - No flash or no light: System failure (after the device is turned on)
- PWR light
  - Steady on: The device is powered normally.
  - Off: The device power supply is abnormal.

Scene topology diagram



Size



Unit: mm

Specifications

Product Specifications	
Model	SE3
Chassis specifications	3U
Maximum number of supported input cards	6 sheets
Maximum number of supported input channels	Route 44
Maximum number of supported output cards	5 sheets
Maximum supported output channels	Route 40
Maximum number of layers	48
Input power	110-240V~, 47-63Hz, 1A
Power consumption of the whole machine	160W
Work Environment	0~45℃, 0%RH~80%RH, non-condensing
Storage environment	-20℃~65℃, 0%RH~95%RH, non-condensing
Dimensions	482.6mm×358.7mm×139.5mm (L×W×H)
Packing size	550mm×450mm×260mm (L×W×H)
Net weight	10KG
Gross weight	11KG

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Statement

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Beijing KystarTechnology Co., Ltd.

A professional provider of comprehensive solutions and
operation services for ultra-high-definition video display and control.

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