

KS9800

Multi-picture splicing processor(20U)

Version: v3.1

Release date: February 2022



Specification



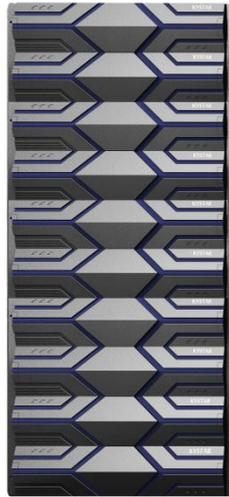
TEL 400 159 0808
Web: www.kystar.com.cn

Beijing KYSTAR Technology Co.,LTD

Professional Ultra HD Video Display
Control system integrated solution and service provider

Overview

The KS9800 Great Wall series multi-screen splicer is a professional video processing and control device. It is a pure hardware FPGA design architecture. All the boards of the product adopt a modular design. The input and output slots can be mixed. All card slots can be fully used. There are many kinds of equipment. The size and specification can meet the application requirements of different projects. This series is a splicing controller specially designed for large screen, projection, LCD and other equipment.

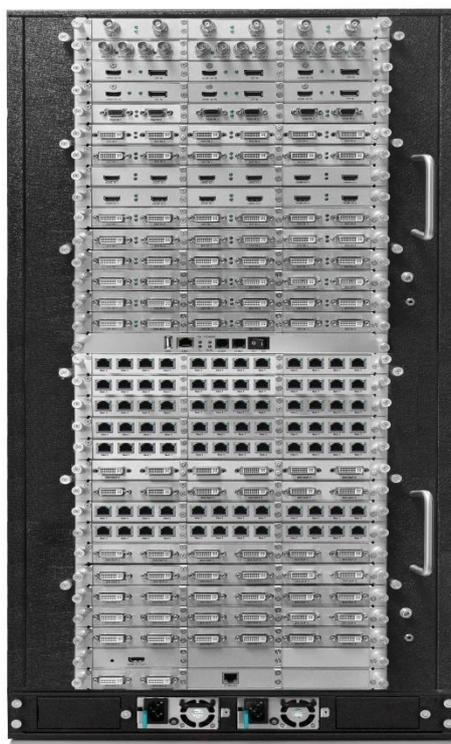


Features

1. Multi-screen display, a single output port can realize 8 screen display at the same time, the screen can be displayed across the output port, support arbitrary superposition, arbitrary size Settings.
2. Can be equipped with 4K@60Hz module, support DP1.2, HDMI2.0 input and output, resolution maximum support 4096×2160@60Hz or 7680×1080@60Hz.
3. Software control, users can directly connect or LAN control through the upper computer software, while supporting B/S architecture, users can use a browser through LAN or Internet access to the device for management.
4. KFS multi-machine synchronization technology, when multiple external Kommander servers access to achieve frame synchronization, can achieve 16K and above screen point-to-point complete frame synchronization display.
5. Grouped screen management: The device supports eight groups of screen management, and the corresponding output resolution of each group of screen can be set separately to meet the mixed control of multiple display terminals in irregular screen and complex scene.
6. Super Resolution zoom technology and video compensation processing algorithm can reduce the picture without size limitation, retain image details and reduce the out-of-focus phenomenon after the picture is put at most times.
7. CrossInt splicing processing technology, effectively eliminate splicing dislocation and asynchronous phenomenon.
8. Multi-machine cascade. Multiple devices can be cascaded through the synchronization card.
9. With the OSD text and text overlay function, you can use the client software to overlay text or pictures on video images. You can set the font size and overlay position (an enhancement card is required).

10. Mode call function, users can preset multiple display layout plan, when using can be called with one key, support up to 200 modes.
11. Mobile terminal management function, which can set device parameters and manage signal through mobile terminal APP software, supporting Android, IOS and Windows systems.
12. Seamless switching function, no black screen, no flicker, no lag in the whole process of signal switching or mode call.
13. EDID management. By changing the DEVICE EDID information, users can set the input resolution of the device by themselves.

Port specifications



Input port		
Type	Quantity	specification
DVI-D (24+1)	90max	<ul style="list-style-type: none"> The maximum resolution is 2048×1152@60Hz, and customized resolution is supported compatible with HDMI1.3 and below
SDI (BNC)		<ul style="list-style-type: none"> Support the standard: SMPTE 259M SD-SDI 270 Mbit/s 480i, 576i SMPTE 292M HD-SDI 1.485 Gbit/s 720p, 1080i SMPTE 424M 3G-SDI 2.970 Gbit/s 1080p
CVBS (BNC)		<ul style="list-style-type: none"> NTSC/PAL adaptive, supports 3D comb filter
VGA (D-Sub)		<ul style="list-style-type: none"> Maximum supported resolution is 1920×1200@60Hz (UXGA) Signal level: R, G, B, Hsync, Vsync: 0 to 1Vpp±3dB (0.7V Video+ 0.3V Sync) 75 ohm; Black level: 300mV Sync-tip: 0V
HDMI1.4a (Type A)	30max	<ul style="list-style-type: none"> 1.4a supports a maximum resolution of 4096x1152@60Hz or 4096×2160@30Hz, and supports custom resolution 1.4 The following version supports a maximum resolution of 2048 x 1152@60Hz, and supports custom resolutions
HDMI2.0		<ul style="list-style-type: none"> HDMI2.0 supports a maximum resolution of 4096 x 2160@60Hz or 7680 x 1080@60Hz, and supports custom resolution with a horizontal width of up to 8000 points and a

		height of up to 4000 points
DP1.2		DP1.2 supports a maximum resolution of 4096 x 2160@60Hz or 7680 x 1080@60Hz, and supports a customized resolution with a horizontal width of up to 8000 points and a height of up to 4000 points

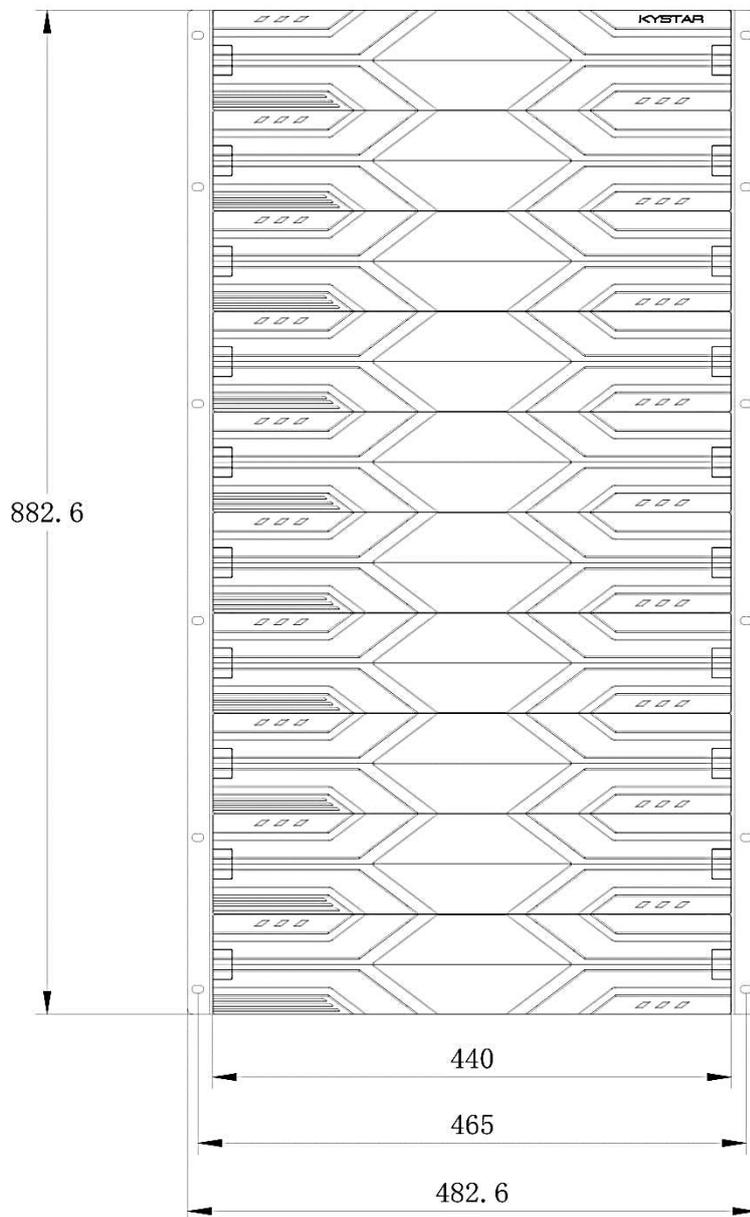
Output port		
type	Quantity	specification
DVI-D (24+1)	90max	· The maximum resolution is 2048×1152@60Hz, and customized resolution is supported. The maximum width is 4000 and the maximum is 4000
HDMI2.0 (4K@60Hz)	15max	·HDMI2.0 supports a maximum resolution of 4096 x 2160@60Hz or 7680 x 1080@60Hz, and supports custom resolution with a horizontal width of up to 8000 points and a height of up to 4000 points
DP1.2 (4K@60Hz)		·DP1.2 supports a maximum resolution of 4096×2160@60Hz or 7680×1080@60Hz, and supports custom resolution with a maximum horizontal width of 8000 points and a maximum height of 4000 points

Monitoring port		
Type	Quantity	specification
DVI-D	2	·Each port monitors 36 inputs, supports a total of 72 inputs
RJ45port	1	·Used to display images on mobile APP and PC software

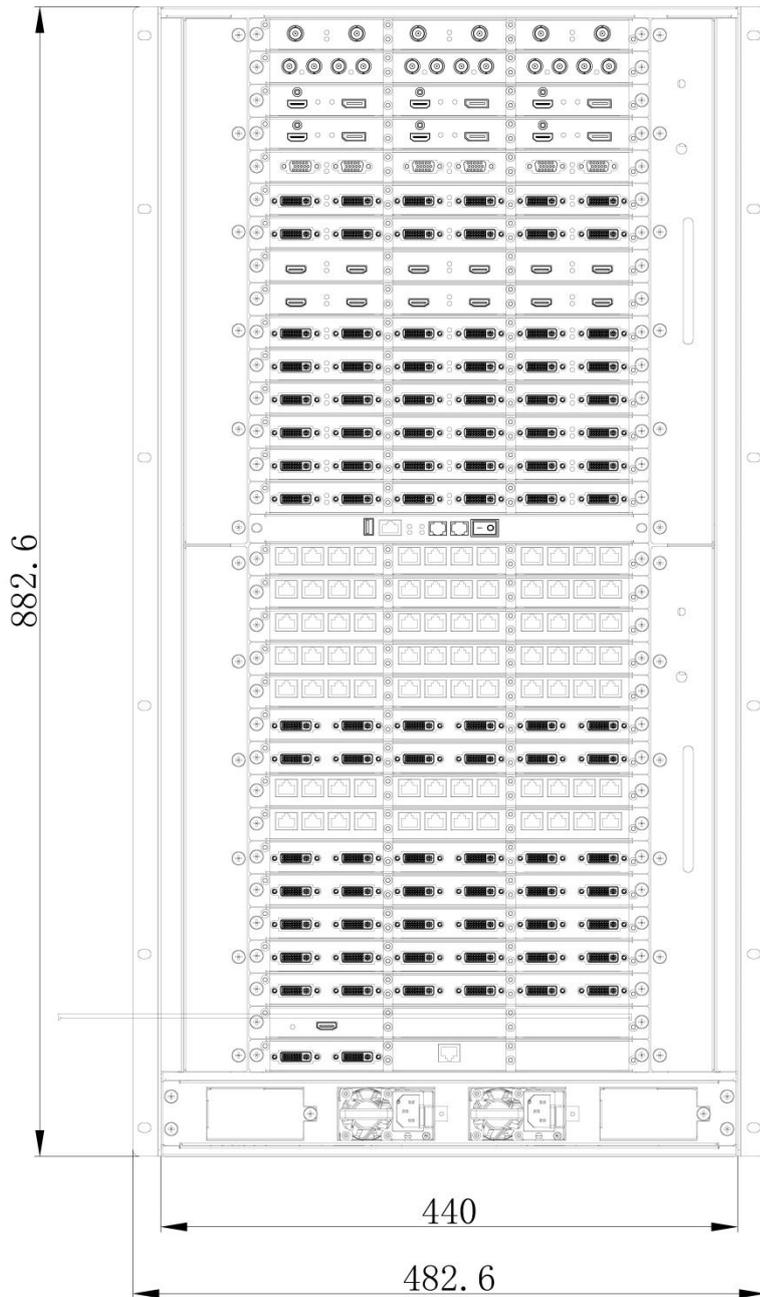
Control port		
Type	Quantity	specification
RJ11 (RS-232)	2	Data transmission rate is 4800, 9600, 19200, 38400, 57600, 115200 (BT)
RJ-45	1	100M

Machine specification	
Input power	100-240V AC~50/60Hz 6.6A
Operating temperature	0-45°C
Dimensions	482.6×360.6×882.6mm (L×W×H)
net weight	60KG
Machine power consumption	1200W

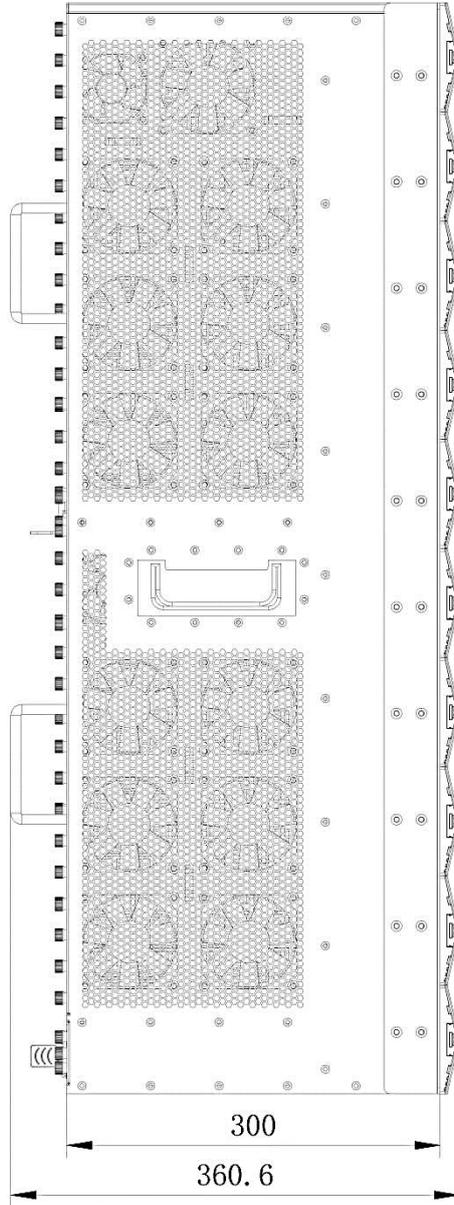
Attachment: Equipment size drawing



Front panel dimension drawing



Rear panel dimension drawing



Side dimension drawing