



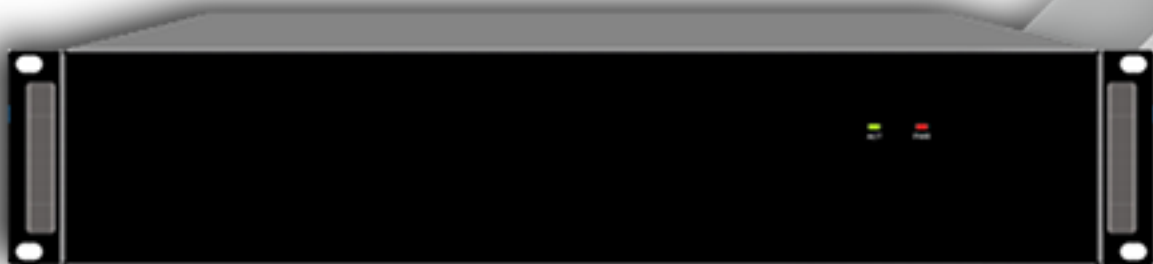
瑞众科技
RUIZHONG TECHNOLOGY

Single Card Multi-channel Hybrid Plug-in Card Video Splicing Processor

SGP-2U

SPECIFICATION DOCUMENT

Ver2.0



SHENZHEN RUIZHONG TECHNOLOGY CO., LTD.

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Release Version	Release Notes	Release Date
V 1.0	Initial release	2022/7/25
V 2.0	Updated version	2024/2/20

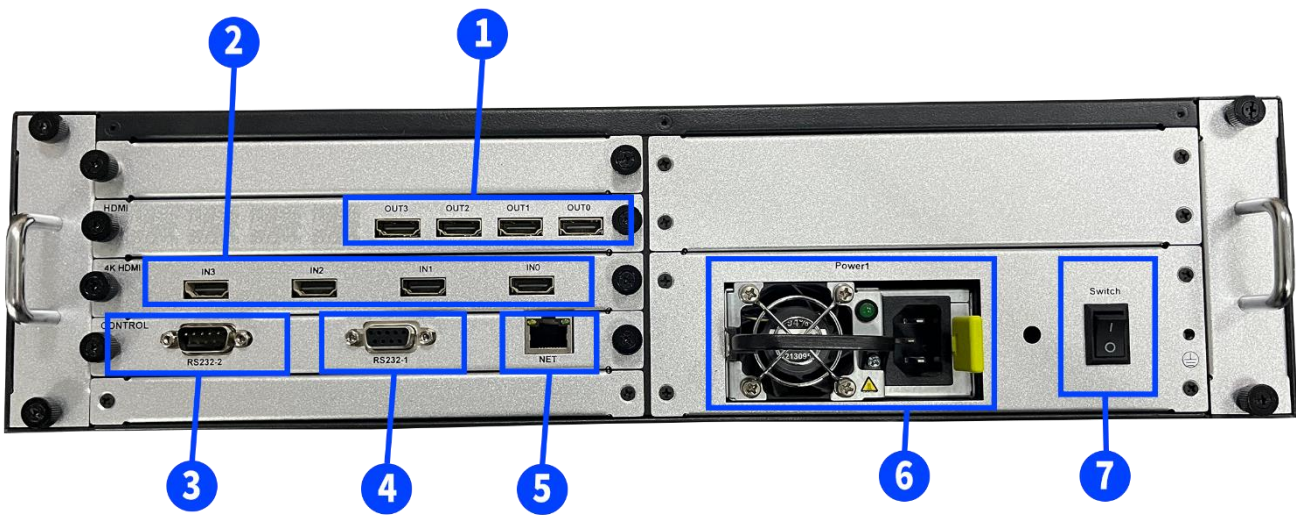
Product Features

- 2.5U chassis with 5 slots, supporting input and output mixing.
- The new 10-bit/12-bit color wheel engine delivers up to 4096 levels of color per single color channel, ensuring point-to-point color restoration. The hue transition is smoother, softer, and more natural.
- Supported inputs include CVBS, VGA, DVI, HDMI 1.4, HDMI 2.0, SD/HD/3G-SDI, DP 1.1, DP 1.2, IPC decoding, USB (video, image, media file playback), etc.
- A single DVI output interface can support up to 2.6 million pixels at 60Hz.
- HDR support enhances image details in both dark and light areas, preventing overblown highlights and underexposed dark tones.
- Support OSD character overlay function, allowing you to add text or pictures to the image.
- Support control via PC, mobile, and central control. The PC version is compatible with Win7, Win8, Win8.1, Win10, and other systems, while the mobile app supports direct device control without forwarding through a server.
- Signal source status monitoring enables real-time monitoring of signal online/offline status in the software.
- Support black bars/clipping function to address issues caused by input signal or achieve enlargement of the key area of the image.
- Support intelligent resolution mode and output port customization.
- Visual management is facilitated, encompassing signal source visualization, layout effect visualization, and operation process visualization.
- Support up to 256 scene modes.
- Support EDID management.
- Support Genlock multi-machine cascade for larger-scale splicing.
- IPC decoding supports mainstream H.264/H.265 and other protocol video stream inputs.
- Hot swapping is supported for both input and output boards.
- Group screen management is available.
- Dual power backup is supported.

Product Appearance



Front Panel



Back Panel

Index	Interface	Description
1	Input Channel	SGP-OUT4HDMI1.3: 4-channel HDMI output card, supporting a maximum output resolution of 1920x1200@60Hz.
2	Output Channel	SGP-IN4HDMI1.4b: 4-channel HDMI 1.4b input card, featuring support for EDID management and source cropping. It supports resolutions up to 4K, specifically 3840x2160@30Hz.
3	Control Board Output	LAN: 1 or 2 network ports for machine control, connectivity to control devices (e.g., PC), and realization of machine control through client software.
4	Control Board Inputs	RS232 IN: 1 serial port input for machine control, connected to control devices, allowing the machine to be controlled by sending instructions from the control device.
5	Network Interfaces	LAN: 1 or 2 network ports for machine control, connectivity to control devices (e.g., PC), and realization of machine control through client software.
6	Power Port	Connect to 100-240V~/6.0-3.0A AC power supply.
7	Power Switch Button	Power on/off

Description

- The board inserted into the rear panel is provided for reference purposes only.
- The product images are provided for reference purposes only. Kindly refer to the actual product for accurate details.
- Standard control cards are equipped with a single network port;

Device Specifications

control	
RS232 Control	DB9
TCP/IP Control	RJ45, TCP/IP compliant
routine	
Construction	2.5U height, rack-mounted structure with 5 slots for mixed input and output
Power Supply	100-240V~/6.0-3.0A, 50/60Hz
Power Consumption (No-load)	100W
Operating Temperature	0°C~+45°C
Relative Humidity	15%~85%
Dimensions (excluding mounting ears)	W480mm x H330m x D110mm
Weight (kg) (excluding boards).	4.5kg
Material	Iron bending

Description

- The dimensions and weight of the chassis are approximate; for precise details, please refer to the actual product.

Product Dimensions

