



G Series intelligent

broadcast controller

Product Specification

Version: Ver.1.0

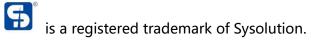
Statement

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Update Record

No.	Version	Updates	Revision Date
1	Ver.1.0	Initial Release	2024.12.13

The document is subject to change without prior notice.

Introduction

The Gemini series intelligent broadcast controller (hereinafter referred to as the G series) is a broadcast control processor designed by Sysolution Company, specifically for indoor LED display screens. It integrates Android application system and sending function, can add third-party APP applications, and is compatible with third-party applications, with powerful interaction and broadcast control capabilities.

The G series supports the use of a remoter to control the LED display, and also supports wireless screen mirroring via multiple systems such as Windows, Mac OS, iOS, and Android devices. The G series provides four scene modes for different application scenarios to adapt to various occasions such as document display, video playback, and remote meetings, ensuring the best display effect.

The design of the G series broadcast controller takes into account convenience and practicality. It can be quickly installed on walls or desktops without any modification to the LED screen structure. It is suitable for various LED display screen application environments such as enterprise exhibition halls, conference rooms, educational venues, hotel lobbies, and remote medical consultations.

Appearance



Functions

1. Up to 12 Gigabit Ethernet ports output, with a maximum load capacity of 7.8 million pixels.

2. 2 HDMI 1.4 inputs, 1 HDMI 1.4 output, and 1 USB 3.0 input. Can be used for multimedia material playback and function expansion.

3. Support screen output scaling.

4. Customized desktop UI system based on Android 11, capable of adding third-party APP applications.

5. Support wireless screen mirroring on multiple platforms, including Windows, Mac OS, iOS, and Android systems.

6. Support whiteboard writing and annotation, and enable remote control to operate the LED display screen.

7. Supports connecting relays for easy power management of LED display screens.

8. Powerful processing performance, 4-core A55 ARM processor with a clock speed of 1.8GHz, onboard 2GB of RAM, and 32GB of internal storage space.

9. Supports H.264 H.265 4K@60Hz High definition video decoding.

10. Supports playback of 1-channel 4K, 2-channel 1080p, 2-channel 720p, 3-channel 480p, or

3-channel 360p videos.

11. Multi terminal program broadcasting control: Intelligent broadcasting control through mobile APP:

The LedOK lite APP can be installed on the mobile phone to achieve program production, publishing, and display screen control;

Remoter for convenient broadcasting control: Local program broadcasting control and simple program production can be performed on the display screen;

USB playback: Supports single player playback, plug and play, or copy playback.

12. Can simultaneously access WiFi and turn on wireless hotspots.

HEMPHEN SYSOLUTION TECHNOLOGY 13. Supporting software: LedOK Express、LedOK lite。

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Layout Definitions

Front Panel

C		Gem12 Estsolution MENU
No.	Name	Description
1	Power key	Control device power on/off
2	Indicators	 GREEN: POWER ON. Green Flash: sleep mode and standby. OFF: Power off.
3	USB3.0	•USB Debug。 •can connect to mouse, keyboard and USB pen driver
4	2.0inch LCD screen	•Show System Status •Menu
5	Knob	 When on the main page, press the knob to enter the menu operation page When selecting on the menu page, turn left or right to select, press select or enter the main menu.
6	Return key	•Exit Menu or operation
7	Infrared receiver	 Infrared remote control controls power on wake-up.

Rear Panel



	Туре	No.	Name	Description
		1	HDMI-IN 1~2	2*HDMI1.4 •maximum 4K@30Hz •minimum 640x480@60Hz •Compliant with HDMI 1.4b standard and DVI 1.0 standard •support customized resolution Width range: 640~4096
	Input	245		Height range: 480~4096
		2	HDMI-OUT	Support outputting standard 1080P
				video source
				2*USB2.0
		3	USB2.0 1~2	 can connect to mouse, keyboard and
				USB pen driver
		4	SIM	●4G/5G SIM socket

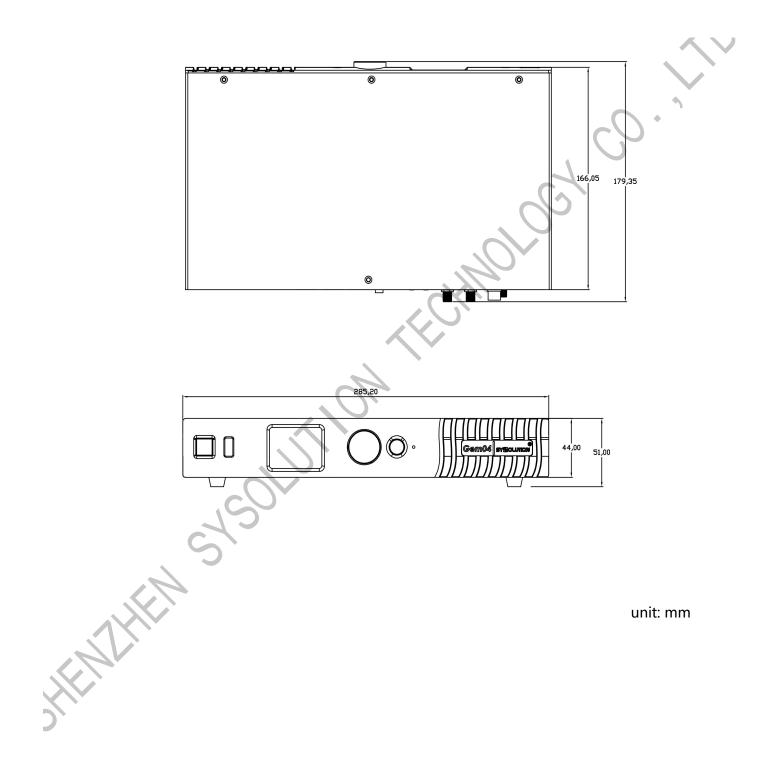
	Output	5	Ethernet 1~12	 12 lines of RJ45 Maximum load capacity of a single Ethernet port: 650000 pixels when the input source is 8-bit. Total load capacity of up to 7.8 million pixels 	
		6	AUDIO	•3.5mm analog audio output.	
		7	SPDIF	•Fiber optic digital audio output.	
	Control interface	8	LAN	 Plug Ethernet cable Connect the upper computer software 	
		C	SENSOR	•485 sensor interface (brightness, temperature and humidity)	
			Phoenix	 Relay control: (NO normally open), (COM common port) IO interface: (IN 5V input pin), (OUT 	
			Terminal1(6pin)	5V output pin) •IR interface: infrared input interface (reserved)	
2		11	Phoenix Terminal 2 (6pin)	•RS232。 •RS485。	
	Antenna	12	WiFi-AP 1~2	•Specification 2T2RWIFI6 antenna	
					l

	port			interface	
		13	WiFi-STA	●WiFi5 antenna port。	
				•4G antenna port.	
		14	4G/5G	•5G antenna interface needs to occupy	$\langle \mathbf{n} \rangle$
				the WiFi antenna interface. (Reserved)	
	Power port	15	DC-12V	•DC12V3A.	•
v					8
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Technical Parameters

Product Type	G04	G08	G12	
Output Display ports	4	8	12	
Single network port output				
with load	650,000 pixels			
Maximum load capacity of			X	
network port output	260,0000 pixels	520,0000 pixels	780,0000 pixels	
Power supply	Independ	ent DC power supply	y, 12V/3A	
Working temperature	ıre -20°C-60°C			
Working humidity	0%RH ~ 80%RH, No condensation -40°C ~ 80°C 0%RH ~ 95%RH, No condensation		ensation	
Storage temperature				
Storage humidity			nsation	
-WHEN SYSO				

Dimension



Accessories

Standard Accessories	Quantity	
WiFi antenna	1	
4G rubber stick antenna (only compatible	1	
with selected 4G modules)	$\mathcal{O}_{\mathcal{O}}$	•
12V power adapter	1	
	S	

	Optional Accessories	Functions
	Brightness sensor RL2	Used to sense the brightness of the current environment
	Temperature sensor RT1	Used to detect the temperature of the current external environment
	Humidity sensor RH1	Used to detect the humidity of the current external environment
	Eight element	Temperature, humidity, illumination PM2.5、PM10、
	environmental sensor R68	Noise, wind speed, wind direction
	Electricity Statistics	Real time platform statistics of daily electricity
12.	Sensor RM1257	consumption
	30W speaker RLB1 * 2	Implement IP emergency broadcasting
	Dual lamp controller	Can achieve changes in color temperature and
	R6B32	brightness of LED lighting fixtures

Cautions

1. The input voltage of this product's power supply is 12V. Please strictly ensure the quality of

the G series power supply.

When you need to connect or disconnect any signal or control wires, please make sure that all

power cords have been unplugged beforehand.

3. When adding hardware devices to this product or removing hardware devices from this

product, please ensure that all signal and power cables have been unplugged beforehand.

Before performing any hardware operation, please turn off the power of the control card and

release static electricity on your body by touching the grounding surface.

5. Please use in a clean, dry, and ventilated environment. Do not put this product in high temperature, humid, or other environments.

6. This product is an electronic product. Please keep away from sources of fire, water, and flammable and explosive dangerous goods.

7. This product contains high-voltage components. Please do not open the chassis or repair the device yourself.

If any abnormal conditions such as smoking or odor are found, please immediately turn off the power switch and contact the dealer.