



# **Synchronous asynchronous Android control box M70B-L**

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## **Product Specification**

Version: Ver.1.3

## Statement

Dear user friend, thanks for choosing SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD (hereinafter referred to as Xixun Technology) as your LED advertising equipment control system. The main purpose of this document is to help you quickly understand and use the product. We strive to be precise and reliable when writing the document, and the content may be modified or changed at any time without notice.

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# Update Record

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No.	Version	Updates	Revision Date
1	Ver.1.0	Initial Release	2022.08.25
2	Ver.1.1	Updated parameter	2024.03.15
3	Ver.1.2	Updated parameter	2024.10.15
4	Ver.1.3	Updated parameter	2024.11.21

The document is subject to change without prior notice.

# Product Introduction

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Thank you for purchasing our LED control card and we hope you will enjoy experiencing the excellent performance of this product. This LED control card is designed to comply with international and industry standards, but may still cause personal injury and property damage if not operated properly. In order to avoid possible dangers from the equipment and to benefit as much as possible from your equipment, please follow the relevant instructions for use in this manual when installing and operating the product.

Sysolution M70B-L is an LED display multimedia asynchronous playback box, using industrial-grade quad-core processor, integrated four Cortex-A35, dual-core Mali-G31 GPU, four-core main frequency 1.5GHz, memory support 1GB + 8GB (2GB + 16GB compatible) LPDDR3. Support playing video, pictures, Gif animation, text, clock and other program content, support -30°C to high temperature 75°C operation, support; support access to the cloud platform release, easily realize the display remote cluster control;

It can be used for indoor business display and outdoor large-screen cluster networking control and other occasions.

# Function Characteristics

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1. Two Gigabit network ports are output, and one network port is used as backup to ensure the stability of image transmission;
2. Support the external connection of eight element environmental sensor R68 through 485 interface to display environmental information without secondary development;
3. Support optional 4G modules. The models of modules in different countries are different. Please provide the country of use for shipment. Support optional 4G modules. Different models fits for different countries. Please confirm the country before shipment;
4. support switch sync/asynchronous mode;
5. Lora wireless timing multi screen synchronization;
6. Onboard WiFi module for wireless communication;
7. Support AP mode and Station mode;
8. Support cluster remote control through web platform;
9. Built in web server, it supports local web page production, program release and display control of PC, mobile phone, pad and other user terminals, cluster remote program release and display control, and cluster remote monitoring of screen status;
10. The user terminal connects to the WiFi hotspot of M70B-L. The default SSID is "SN number" and the default password is "12345678";
11. The timing switch, volume and brightness can be set centrally through the management system;
12. Support to play programs according to the program list;

13. The timing switch, volume and brightness can be set centrally through the management system;

14. Support USB camera;

15. Support NTP precise automatic timing;

16. Software kit: AIPS4.0 Cloud publishing platform, PC software LedOk Express, mobile APP:

LedOK Lite.

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# Product Appearance

Control box M70B-L



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# Product Parameters

Features	Description	
Type	M70B-L (No 4G) /M70B-L-4G Control box, M70L-4G Naked card	
Pixel	Synchronous/Asynchronous Media player Dual Ethernet ports,1.3 million pixels, maximum width 1920, maximum height 1920, Support discount maximum width 20222,maximum height 1920	
Communication mode	Network port、WiFi、USB、 optional 4G module	
CPU	Cortex-A35 4 Core main frequency 1.5GHz	
GPU	Mali-G31MP2 OpenGL ES3.2, Vulkan 1.0, OpenCL 2.0 Dvalin-2EE	
System memory	8GB Emmc+1GB LPDDR3	
Operating system	Android 9.0	
WiFi	IEEE 802.11b/g/n 2.4G	
GPS	GNSS GPS/Beidou/Glonass	
Other interface support	<ol style="list-style-type: none"> <li>1. 1.1 channel stereo audio output.</li> <li>2. 1 line HDMI input</li> <li>3. 1 USB2.0 port.</li> <li>4. Support play program through USB.</li> <li>5. 1 RS485 port, 1 RS232、 1 TTL serial port. Connect to light sensor or other sensors, as well as connecting to other modems to realize other functions.</li> </ol>	
Configuration software	LedOK Express	
<b>Support frequency band</b>		
Type	3G/4G (optional)	Certificate



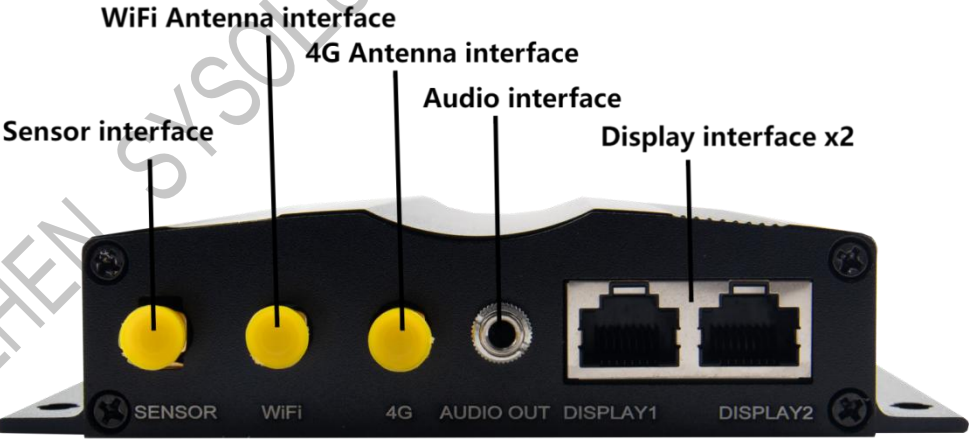
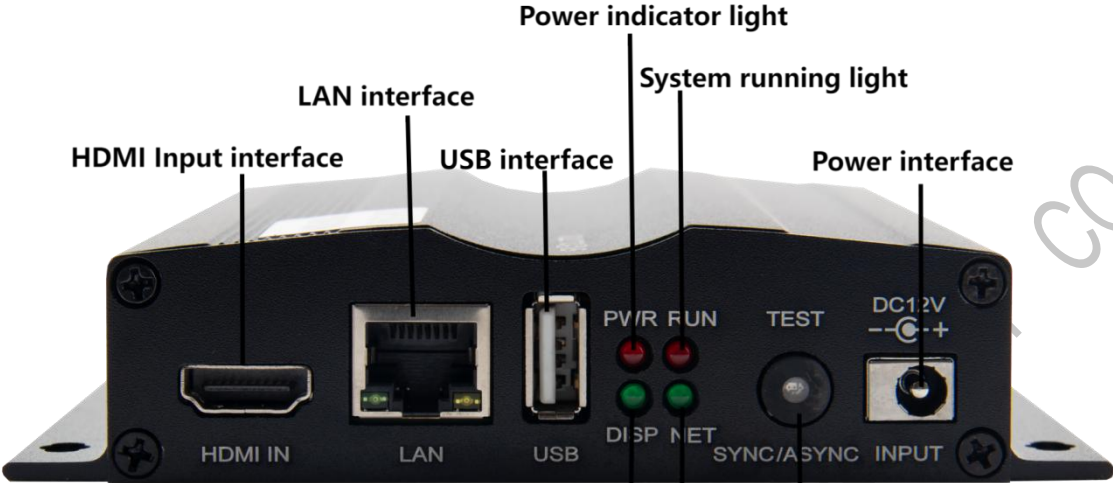
<p><b>M70B-L-CH</b></p>	<p>-China (China/India)</p> <p>FDD-LTE: B1/3/5/8</p> <p>TDD-LTE: B38/39/40/41</p> <p>TDSCDMA: B34/39</p> <p>WCDMA: B1/8</p> <p>CDMA 1X/EVDO: BC0</p> <p>GSM: B3/5/8</p>	<p>Compulsory Certification: SRRC/ NAL/</p> <p>CCC</p> <p>Others: WHQL</p>
<p><b>M70B-L-G</b></p>	<p>-Global</p> <p>FDD-LTE: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28</p> <p>TDD-LTE: B38/39/40/41</p> <p>WCDMA: B1/2/4/5/8/6/19</p> <p>GSM: 4 Frequencies</p>	<p>Operator certification: Deutsche Telekom/ Verizon/ AT&amp;T/ Sprint/U.S. Cellular/ Telus</p> <p>Mandatory/consistent authentication: GCF/ CE/ FCC/ PTCRB/ IC/ Anatel/IFETEL/ SRRC/ NAL/ CCC/ KC/ NCC/ JATE/ TELEC/ RCM/ NBTC/ IMDA/ICASA</p> <p>Others: WHQL</p>

<p><b>M70B-L-NA</b></p>	<p>-North America</p> <p>FDD-LTE: B2/4/5/7/12/13/17</p> <p>WCDMA: B2/4/5</p>	<p>Operator certification: AT&amp;T/ T-Mobile/Rogers/ TelusVerizon/AT&amp;T (FirstNet)/T-Mobile/U.S. Cellular/Rogers/ Telus Mandatory/consistent authentication: FCC/ IC/ PTCRB Others: WHQL</p>
<p><b>M70B-L-EU</b></p>	<p>-Eurasi ( EMEA/Korea/Thailand/India and other Asian countries)</p> <p>FDD-LTE: B1/3/5/7/8/20</p> <p>TDD-LTE: B38/40/41</p> <p>WCDMA: B1/5/8</p> <p>GSM: B3/5/8</p>	<p>Operator certification: Vodafone/Deutsche Telekom/SKT/ Telefónica Mandatory/consistent authentication: GCF/ CE/ KC/ NCC/RCM/ FAC/ NBTC/ICASA Others: WHQL</p>
<p><b>M70B-L-LA</b></p>	<p>-Latin America ( LA/AU/Newsland)</p> <p>FDD-LTE: B1/3/5/7/8/28</p> <p>TDD-LTE: B40</p> <p>WCDMA: B1/2/5/8</p> <p>GSM: B2/3/5/8</p>	<p>Compulsory Certification: GCF/ FCC/ Anatel/ NCC/RCM Others: WHQL</p>

<p><b>M70B-L-J</b></p>	<p>-Japan</p> <p>FDD-LTE: B1/3/8/18/19/26</p> <p>TDD-LTE: B41</p> <p>WCDMA: B1/6/8/19</p>	<p>Operator certification: NTT</p> <p>DOCOMO/SoftBank/ KDDI</p> <p>Compulsory Certification: JATE/ TELEC</p> <p>others: WHQL</p>
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# Interface Parameters/Define



# Working Parameters

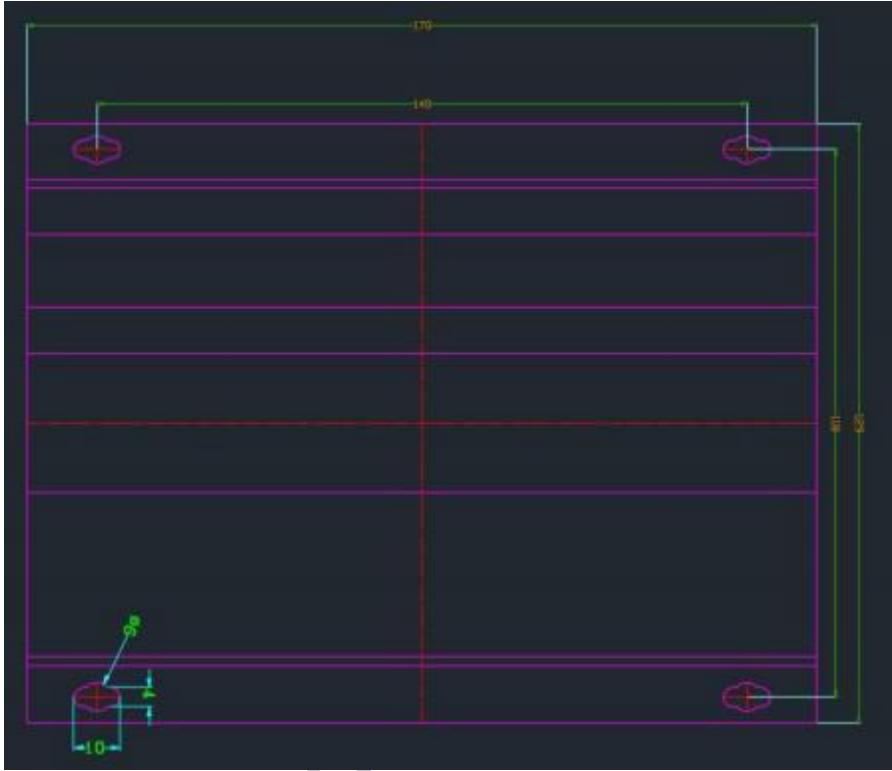
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Working parameters	
Working voltage (V)	12V
Working current (A)	0.9A Max: 3A
Maximum working power consumption (W)	10
working temperature (°C)	-40°C ~ +85°C
Storage temperature (°C)	-40°C ~75°C, Recommend 5°C ~35°C
Humidity of working environment (%)	10% ~ 90%, No condensation
Net weight (g)	Naked card: 135g, box: 467g

1. It is recommended to use an independent (12V/3A or above) power supply for the control card;
2. High working temperature will cause a sharp decline in power efficiency. If the control card and the module share the same power supply, please ensure that the control card has a stable voltage and a reasonable actual current supply.

# Dimensional Drawing

Installation dimensions of control box M70B-L



Unit: mm

# Accessories

Standard accessories	Size/Quantity
WiFi rubber rod antenna	1
4G Glue rod antenna	1
Optional accessories	Accessory function
Humidity lineRH1	Used to detect the humidity of the current external environment
Brightness lineRL2	Used to sense the brightness of the current environment
Optional multi-function card RS5 integrated synchronization module, 5-way voltage detection, door opening and closing and smoke interface (optional RD1 door sensor, RM1 smoke sensor)	Power detection
Eight in one environmental sensor R68	Temperature, humidity, illumination, PM2.5, PM10, noise, wind speed, wind direction
Electric quantity statistics RM1275	Real-time view of daily electricity consumption
G11 GMous multimode	GPS Positioning module
33W horn*2 RLB1	Two remote broadcasts per screen, real-time shouts
Matching accessories (the above options, according to the order needs to place another corresponding model)	

# Notes

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1. The input voltage of the power supply of this product is 5-12V, please strictly ensure the quality of the power supply of M70B-L series.
2. When you want to connect or unplug any signal cable or control cable, please make sure that all power cables have been unplugged in advance.
3. When you want to add hardware devices to the product or remove hardware devices from the product, please make sure that all signal and power cables have been unplugged in advance.
4. Before any hardware operation, please turn off the power of the control card and discharge the static electricity on your body by touching a grounded surface.
5. Please use the product in a clean, dry and ventilated environment, do not put the product into high temperature, humidity and other environments.
6. This product is an electronic product, please keep it away from fire, water and flammable, explosive dangerous goods.
7. There are high-voltage parts in this product, please do not open the case or repair the equipment by yourself.
8. If you find smoke, odor and other abnormalities, please immediately turn off the power switch and contact the dealer.