SYSOLUTION

Stand-Alone LAN Player Box M50B-D

Product Specification

Version：Ver.1.5

Statement

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Update Record

No.	Version	Updates	Revision Date
1	Ver.1.0	Initial Release	2022.08.25
2	Ver.1.1	Update content	2023.02.15
3	Ver.1.2	Update dimension drawing	2023.05.11
4	Ver.1.3	Update the temperature	2023.11.17
5	Ver.1.4	Update parameter	2024.03.15
6	Ver.1.5	Update parameter	2024.09.06

The document is subject to change without prior notice.

Product Introduction

Xixun M50B-D supports -30℃ to 75℃ in high temperature, and supports network backup with gigabit dual network ports. Hardware and software design fully consider user deployment, operation, and maintenance scenarios, making deployment easier, operation more stable, and maintenance more efficient. With safe and stable functional design, save space for users, reduce wiring, can be used for advertising machine, transparent screen, mirror screen, shaped screen, door screen, shopping mall screen. Subway screen, special stage screen and other scenes with load.

M50B-D series adopts industrial-grade quad-core processor, integrates four Cortex-A35, dual-core Mali-G31 GPU, four-core master frequency 1.5GHz, can withstand 90 ℃ high temperature stable operation, memory support 1GB+8GB (compatible with 2GB+16GB) LPDDR3. The chip can support GSM, WCDMA, TD-SCDMA, EVDO, TDD-LTE, FDD-LTE and other systems, is a highly integrated product.

Function Characteristics

1. The eight-factor environmental sensor R68 can be connected externally through the 485 port to display environmental information without secondary development；

2. Support external GPS positioning and punctuality module to ensure multi-screen playback synchronization；

3. Support remote power off, control screen body switch, hard shutdown；

4. Support optional 4G module, different countries have different models, please provide the use country；

5. Onboard WiFi module to realize wireless communication； Support AP mode, Station mode；

6. Built-in Web Sever, support local web page production, support PC, mobile phone, Pad and other user terminal program release and display control, cluster remote program release and display control, cluster remote monitoring screen state；

7. Powerful processing performance, 4-core processor, main frequency 1.5GHz, support 1080P video hard decoding, 1GB running memory；

8. 8GB internal storage space；

9. When the user terminal connects to the WiFi hotspot provided by the M50B-D, the default SSID is SN and the default password is 12345678；

10. Support GPS positioning and timing；

11. Can automatically adjust the brightness of the display screen, need supporting brightness sensor；

12. Support the broadcasting of 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 time calibration;

16. Supporting software: PC software LedOK Express, mobile APP: LedOK Kit.

Product Appearance
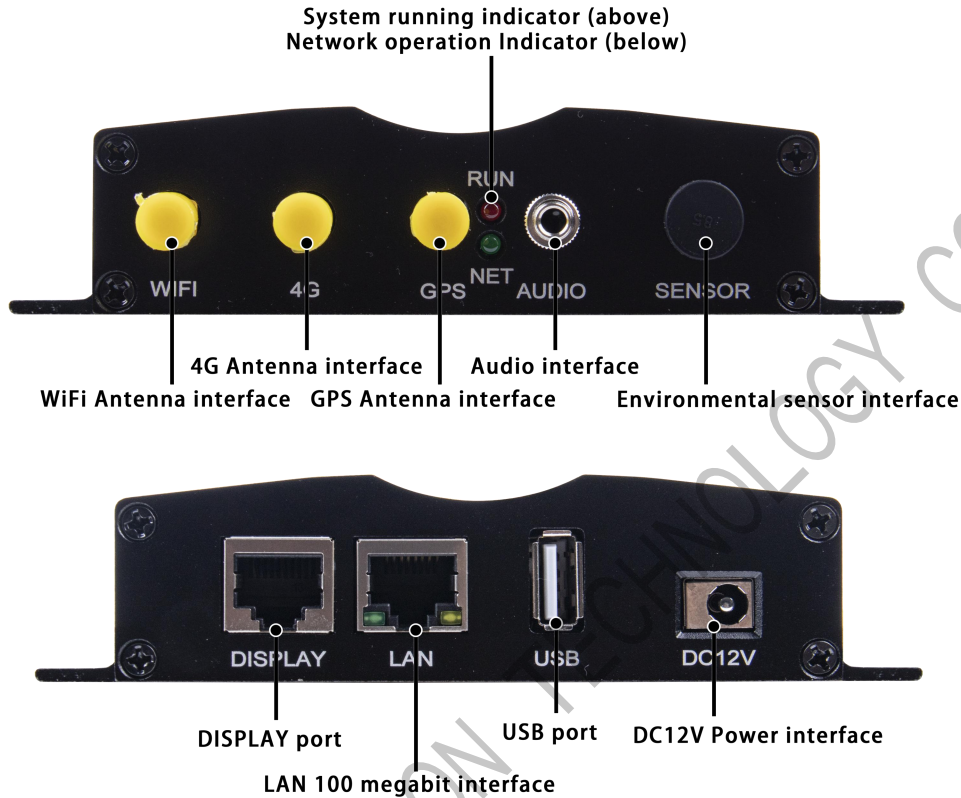
Product parameter

Features	Description
Type	Main push: M50B-D (no 4G), M50B-D-CH (China 4G full netcom), M50B-D-G (global pass, foreign recommended) M50B-D-NA, M50B-D-EU, M50B-D-LA (batch can be selected considering the cost, sample recommended global pass)
Pixel	M50B-D: One Ethernet port supports 650,000 pixels, widest 1920, highest 1920, Support discount max width 7680,max height 1920
Communication mode	Network port, WiFi, U disk, 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 syste	Android 9.0
WiFi	IEEE 802.11b/g/n 2.4G
GPS	GNSS GPS/Beidou/Glonass
Other interface support	1. 1 stereo audio output. 2. 1 USB2.0 ports. 3. Support program import and play on USB disk. 4. One RS485 port, one RS232 port, and one TTL serial port. Connect the luminance sensor, other sensors, and other modules to achieve corresponding functions.
Media Type	Video formats: MP4, AVI, WMV, RM/RMVB, FLV and other common video formats Image formats: JPG, GIF, BMP, JPEG, PNG and other common image formats. Audio formats: MPEG-1 Layer III, AAC, etc.
Configuration software	LedOK Express

Support frequency band		
Type	**3G / 4G frequency band (optional)**	**Attestation**
M50B-D-CH	-China FDD-LTE：B1/3/5/8 TDD-LTE：B38/39/40/41 TDSCDMA：B34/39 WCDMA：B1/8 CDMA 1X/EVDO：BC0 GSM：B3/5/8	Compulsory certification：SRRC/ NAL/ CCC Other：WHQL
M50B-D-NA	-North America FDD-LTE：B2/4/5/7/12/13/17 WCDMA： B2/4/5	Operator certification：AT&T/ T-Mobile/Rogers/ TelusVerizon/AT&T (FirstNet)/T-Mobile/U.S. Cellular/Rogers/ Telus Compulsory / consistency certification：FCC/ IC/ PTCRB Other：WHQL

		Operator certification:
M50B-D-EU	-Eurasia FDD-LTE: B1/3/5/7/8/20 TDD-LTE: B38/40/41 WCDMA: B1/5/8 GSM: B3/5/8	Vodafone/Deutsche Telekom/SKT/ Telefónica Compulsory / consistency certification: GCF/ CE/ KC/ NCC/RCM/ FAC/ NBTC/ICASA Other: WHQL
M50B-D-LA	-Latin America FDD-LTE: B1/3/5/7/8/28 TDD-LTE: B40 WCDMA: B1/2/5/8 GSM: B2/3/5/8	Compulsory certification: GCF/ FCC/ Anatel/ NCC/RCM Other: WHQL
M50B-D-G	-Global FDD-LTE: B1/2/3/4/5/7/8/12/13/ 18/19/20/25/26/28 TDD-LTE: B38/39/40/41 WCDMA: B1/2/4/5/8/6/19 GSM: Four frequency	Operator certification: Deutsche Telekom/ Verizon/ AT&T/ Sprint/U.S. Cellular/ Telus Compulsory / consistency certification: GCF/ CE/ FCC/ PTCRB/ IC/ Anatel/IFETEL/ SRRC/ NAL/ CCC/ KC/ NCC/ JATE/ TELEC/ RCM/ NBTC/ IMDA/ICASA Other: WHQL

Interface Parameters/Definitions

System running indicator (above)
Network operation Indicator (below)

WiFi Antenna interface   GPS Antenna interface
4G Antenna interface   Audio interface   Environmental sensor interface

DISPLAY port   USB port   DC12V Power interface
LAN 100 megabit interface

No.	Interface type	illustrate
1	Display port	Gigabit network port output
2	LAN network port	100 Mbit/s network port input
3	USB interface	USB2.0 interface, support U disk program import and play, Debug interface
4	Power interface	12V power supply
5	GPS port	GNSS GPS/Beidou/Glonass
6	4G port	4G antenna interface
7	WIFI port	IEEE 802.11b/g/n 2.4G
8	Pilot lamp	System indicator/Network indicator
9	Audio output interface	Stereo audio output, external running indicator, external reset

10	Environmental sensor interface	Environmental sensor

Working Condition

Working parameters	
Working voltage　(V)	12V
Working current　(A)	0.9A Max：3A
Maximum working power consumption（W)	10
working temperature　(°C)	- 30℃ ~ + 75℃
Storage temperature　(°C)	-40℃ ~75℃，Recommend 5℃ ~35℃
Humidity of working environment (%)	10% ~ 90%，No condensation

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
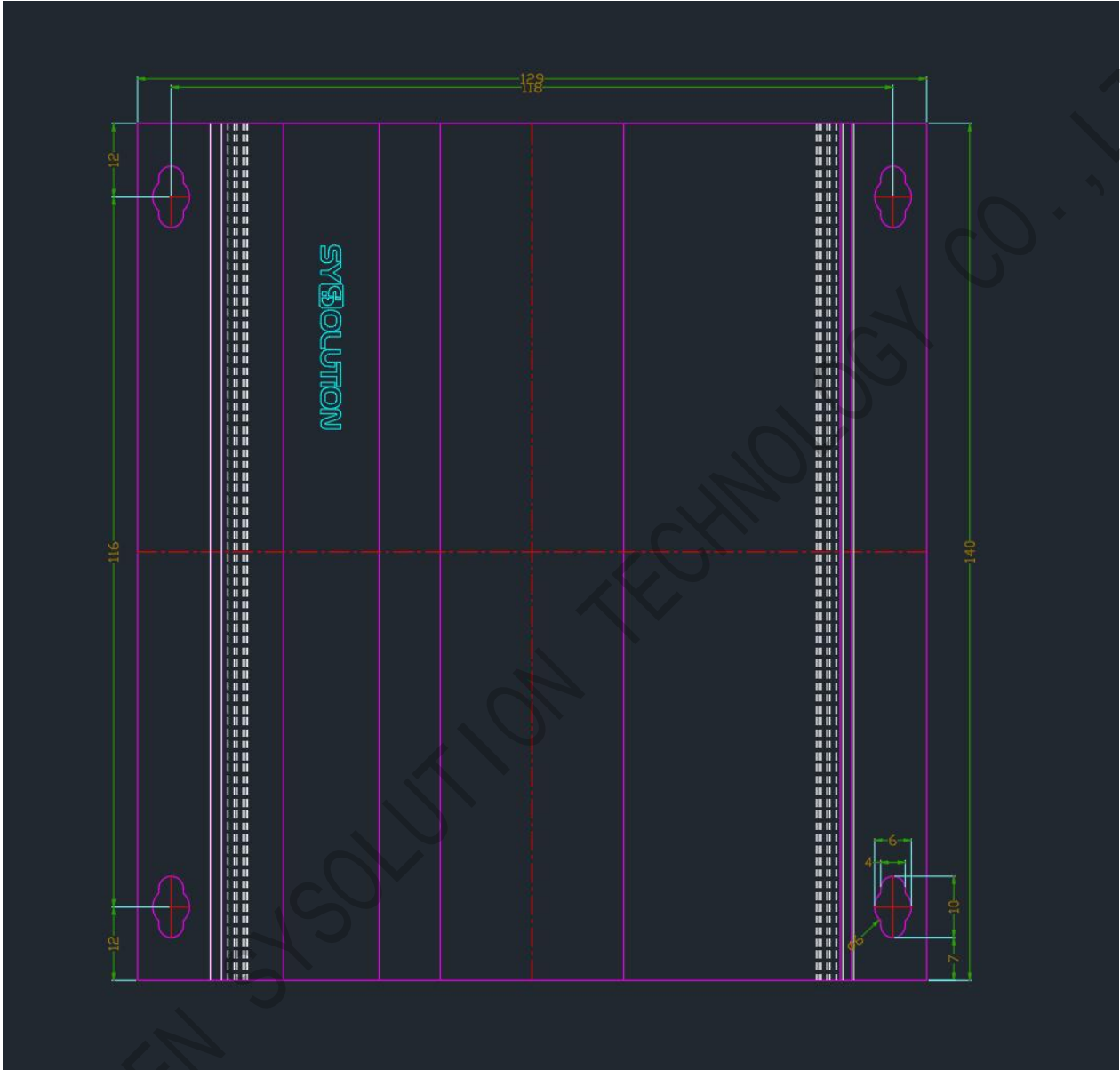
Unit: mm

Accessories

Standard fittings	Quantity
WiFi antenna	1
4G antenna	1
Power adapter	1
Optional accessories	**Accessory function**
Humidity line RH1	Test the humidity of the current environment
M50S with brightness line RL2	Used to sense the brightness of the current environment
8-in-1 environmental sensor R68/ 6-in-1 air quality sensor R66	Temperature, humidity, illumination, PM2.5, PM10, noise, wind speed, wind direction
Electricity statistics RM1275	Real-time view of daily electricity consumption
G11 GMous Multi-mode	GPS positioning module
33W horn *2 RLB1 (need to be paired with a power amplifier RGF1)	Two remote broadcasts per screen, real-time shouts
Matching accessories (the above options, according to the order needs to place another corresponding model)	

Notes

1. The input voltage of the power supply of this product is 12V and the voltage range is 5V ~ 12V. Please strictly ensure the quality of the power supply of M50B-D series.

2. When connecting or disconnecting any signal or control cables, make sure all power cables are unplugged beforehand.

3. Make sure all signal and power cables are unplugged beforehand when you want to add hardware devices to or remove hardware devices from the product.

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.