SYSOLUTION

Stand-Alone LAN Player Box M50B-D

Product Specification

Version： Ver.1.4

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

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

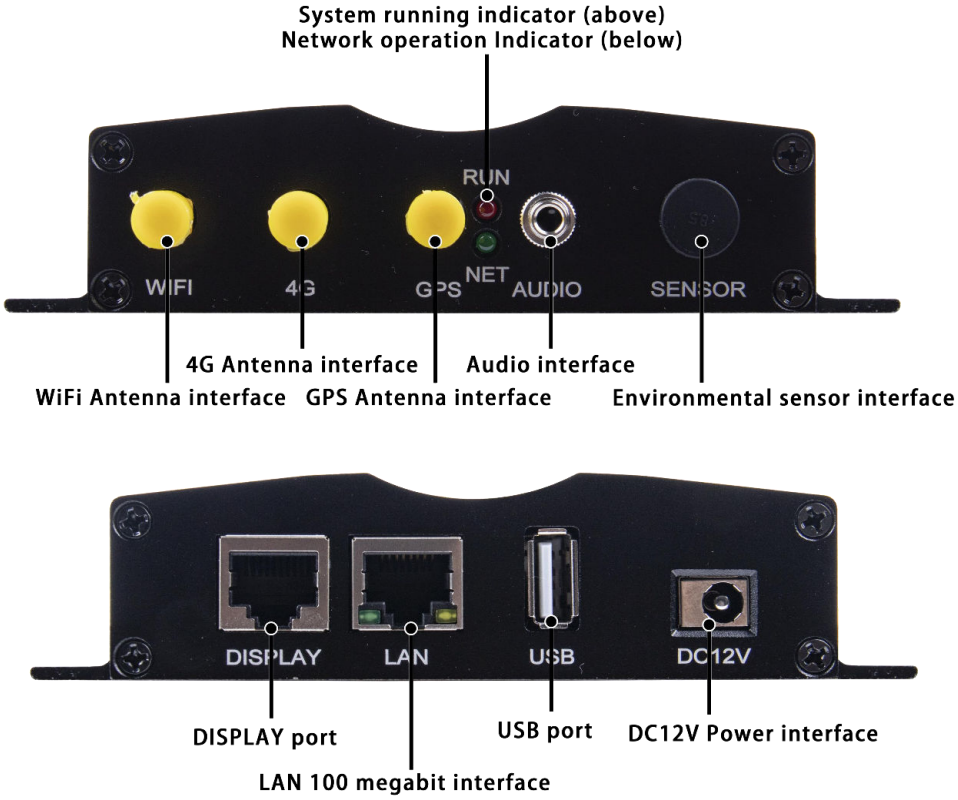
Product parameter

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.	
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
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	Operator certification：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



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

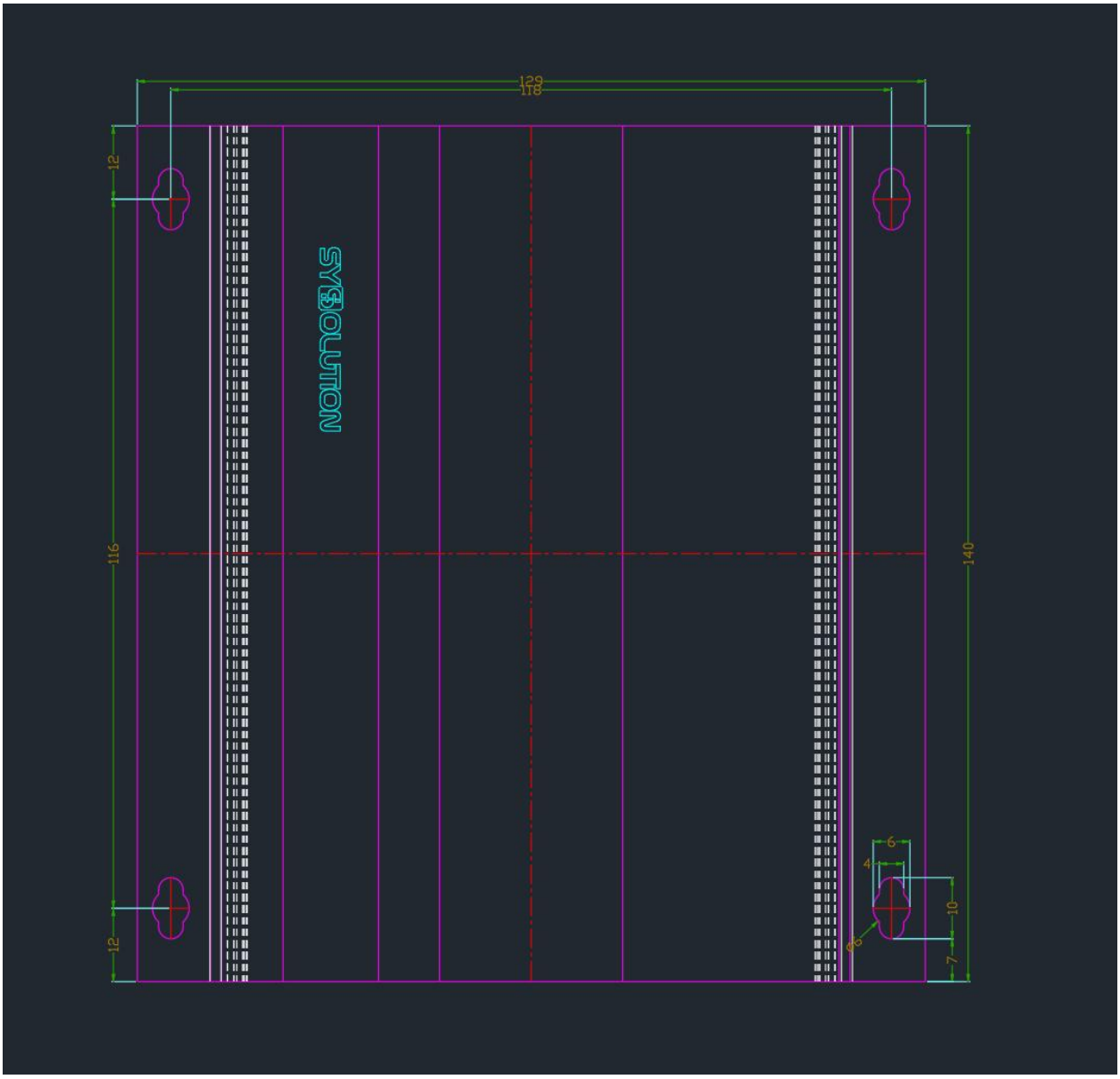
10	Environmental sensor interface	Environmental sensor

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°C ~ + 75°C
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	Size/quantity
Glue stick WiFi antenna	1.5m*1
4G sucker antenna	3m*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. It is strictly forbidden to disassemble and assemble the product by yourself.
2. It is strictly forbidden to plug and unplug the SIM card with power.
3. It is strictly forbidden to use improper voltage for power supply.
4. It is strictly forbidden to share the 200w/5v switching power supply of the screen to supply power to the card, which will lead to unstable system operation and low horn sound.