

LCD Controller

L20 Instructions

Version: Ver.1.0

Statement

Dear user friend, thanks for choosing Shanghai Xixun Electronic 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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### **Overview**

L20 board integrates multimedia decoding, LCD driver, Ethernet, HDMI, WIFI, 4G, Bluetooth, supports most of the current popular video and picture format decoding, supports HDMI video output/input, dual 8/10-bit LVDS Interface and EDP interface, can drive various TFT LCD displays, greatly simplify the system design of the whole machine, TF card and SIM card holder with lock, more stable, very suitable for high-definition network playback box, video advertising machine and picture frame Advertising machine.

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### **Functions And Features**

- High integration: Integrate USB/LVDS/EDP/HDMI/Ethernet/WIFI/Bluetooth into one, simplify the design of the whole machine, and can insert TF card;
- 2. Save labor costs: The built-in PCI-E 4G module supports various PCI-E 4G modules such as Huawei and Longshang, which is more suitable for remote maintenance of advertising all-in-one machine and saves labor costs;
- 3. Rich expansion interfaces: 6 USB interfaces (4 pins and 2 standard USB ports), 3 expandable serial ports, GPIO/ADC interface, which can meet the requirements of various peripherals in the market;
- 4. High-definition: Maximum support 3840 × 2160 decoding and LCD display with various LVDS/EDP interfaces;
- 5. Complete functions: Support horizontal and vertical screen playback, video split screen, scrolling subtitles, timing switch, USB data import and other functions;
- Convenient management: The user-friendly playlist background management software is convenient for advertising playback management and control. it is easy to understand the playback situation through Play log;
- 7. Software: LedOK Express.

### Interfaces



	Main Hardware Indicators				
CDU	Rockchip RK3288 is the strongest quad-core 1.8GHz Cortex-A17				
CPU	quad-core GPU Mail-T764				
RAM	2G (default) (up to 4G)				
Built-in	EMMC 16C(default)/22C/64C(antippal)				
Memory	EMINC ToG(default)/32G/64G(optional)				
Built-in ROM	2KB EEPROM				
Decoded	Supports and include a 2040 * 2160				
Resolution	Supports a maximum of 5640 * 2160				
Operating	Android 7.1				
System	Android 7.1				
Play Mode	Supports multiple playback modes such as loop, timing, and insertion				
Network 🔹	4C Ethernet support WiEi/Plueteeth 4.0 wireless peripheral evension				
Support	Ad, Ethemet, support wiri/bluetooth 4.0, wheless peripheral expansion				
Video	Support MD4 ( H 264 MDEC, DIV/Y, YV/ID) format				
Playback					
USB2.0	2 LICP host A LICP sockets				
Interface	2 USB NOSL, 4 USB SOCKETS				
Mipi Camera	24 pin FPC interface, support 1300w Camera (optional)				

www.sysolution.net

Serial Port	Default 3 TTL serial port sockets (can be changed to RS232 or 485)				
GPS	External GPS (optional)				
WIFI、BT	Built-in WIFI, BT4.0 (optional)				
4G	Built-in 4G module communication (optional)				
Ethernet	1, 10M/100M/1000M adaptive Ethernet				
TF Card	Support TF card				
LVDS Output	1 single/dual channel, can directly drive 50/60Hz LCD screen				
EDP Output	Can directly drive EDP interface LCD screen with various resolutions				
HDMI					
Output	I, support 1080P@120Hz, 4Kx2k@60Hz output				
HDMI Input	HDMI input, 30pin FPC custom interface				
Audio and	Support left and right channel output, built-in dual 8R/5W power				
video output	amplifier				
RTC real time					
clock	Support				
Timer Switch	Support				
System	Current CD could for the set of the				
Upgrade	Support SD card/computer update				
0					

### **Software Operation Procedures**



### Hardware Connection Diagram



## **Software Connection**

Confirm the hardware connection, open the LedOK Express software, and the sending card can be automatically detected in the device management interface. If the sending card cannot be detected, please click the refresh button on the right side of the software interface. If it is connected by a network cable, please open the "RJ45 Cable directly connected" in the lower left corner of the software interface.



### **LedOK System Parameters**

#### LED full screen width and height settings

Click Terminal control and select the controller, go to Advanced parameters and input  $\sim$ 

CK -18 LedOK Express Termianl Terminal Co ALL 5 Screen ID Screen IP Online L20-720-40196 169.254.255.2... L20-720-30855 192.168.5.254 Input password 888 L20-a20-40547 192.168.5.118 L20-a20-40535 192.168.5.132 L20-220-40491 192.168.5.125

password 888 to enter setup interface.

In the advanced configuration interface, enter the LED screen width and height parameters and click "Set" to prompt success.

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	single scr	een operation->Current screen: L2	0-520-00007	•	
	LED S	creen Width(pixel): 1920	Height(pixel): 1080	Set	
	Web S Realtin	erver Address: www.m2mled.net	Compant ID:	n_test_passed Set	
	Apku	ograde Check Apk	✓ Uninsta	Running check	
	FPGA 查看E	Upgrade FPGA version check 志	Sync FPGA version Resta	rt led controller system	
		Start LedSet3.0 configure LED mo	dule (used by manufacture	r's professionals)	
RJ45 Cable directly connected	ON Detect	>	U.		
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# LedOK Configuration Network

There are three ways for the control card to access the network, namely, network cable access, WiFi access, 3G/4G network access, and different types of control cards can choose the network access method according to the application (choose one of the three).

#### Method 1: Wired network configuration

Then open the network configuration interface, the first is the wired network, you can set the IP parameters of the selected control card.

LedOK Express	Termianls	Solutions		Terr	ninal Control	×
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RJ45 Cable directly connected O	single scree single scree y op Throu to get then e C cu chceel APN:	In operation->Current screen: L20-520-00 Wire E gen 4G/5G Jgh the chcek status button, you can autor the response APN information. If you can enter the APN information manually. USTOM K status Country ID(mcc): 515  C APN(Required) User Name: Not m Set Readback	007 Inther(RJ45) Configuration 4G/5G Configuration matically match the t find the operator, y Carrier Name Carrier Name equired Pass	uration country code MCG you can select the word: Not require	C, and then select "o "custom" check box	، perator" c, and

Control card access network priority wire network.

When selecting wireless WiFi or 4G network access, the wired network must be unplugged, and the IP address of the sending card is obtained automatically.

#### Method 2: WiFi enabled

Check WiFi Enable and wait for about 3 seconds, click Scan WiFi to scan available WiFi nearby, select the WiFi and enter the password, click Save to save the WiFi configuration to the control card.

	● - □ ×	
Termia	Is Solutions Terminal Control	
ALL 1 Q	Refresh -	
Screen ID Online Screen		
✓ L20-520-00007 ● 192.168.0	200 tness Adjust 'ower Contro ork Configui Synchroniz: Encrypt need param /ideo source	
	single screen operation->Current screen: L20-520-00007	
	Wire Enther(RJ45) Configuration	
	WIFi Configuration	
	WiFi name office[Signal strength:66]	
	Password xixun88833820 Password	
	Set Readback	
	10/20 0-15-0-11-0	
	0	
RJ45 Cable directly connected ON De		

After about 3 minutes, the control card will automatically search for the WiFi hotspot connected to the configuration, and the "internet" light on the control card will flash uniformly and slowly, indicating that it has connected to the cloud platform. At this time, you can log in to the cloud platform www.m2mled.net to send the program. **Tips** 

If the WiFi cannot go online, you can troubleshoot the following situations:

1. Check whether the WiFi antenna is tightened;

- 2. Please check if the WiFi password is correct;
- 3. Check whether the number of router access terminals has reached the upper limit;
- 4. Whether the E-card code is in the wifi location;
- 5. Re-select a WiFi hotspot to configure the connection;
- 6. Is the Y/M series wired network unplugged (priority wired network).

#### Method 3: 4G/5G configuration

Check Enable 4G/5G, the country code MMC can be automatically matched by the Get Status button, and then select "Operator" to get the corresponding APN information, if the operator cannot be found, you can check the "Custom" checkbox, Then manually enter the APN information.

ALL 1     Screen ID     0     L20-520-00007     192.168.0.200     192.168.0.200     192.168.0.200     Single screen operation->Current screen: L20-520-0007     Wire Enther(RJ45) Configuration     Image: Configure     Image: Confi	LedOK Express	Termianls		Hutions	Terminal Cont	© — □ ×
Single screen operation->Current screen: L20-520-00007           Wire Enther(RJ45) Configuration           O DHCP                © Specify IP            IP Address         192.168.0.200           Subnet mask         255.255.0           Gateway         192.168.0.1	ALL 1 Screen ID	Online Screen IP 07 192.168.0.200 1	iness Adjust	ork Configui	Encrypt nced	Refresh param //deo source
DNS Address 192 . 168 . 0 . 1	andre		O DHCP     O Specify IP     IP Address     Subnet mask     Gateway     DNS Address .	rent screen: L20-520-00007 Wire Enther(RJ45) Config 192 . 168 . 0 . 200 255 . 255 . 255 . 0 192 . 168 . 0 . 1 192 . 168 . 0 . 1	guration	

After setting the 4G/5G parameters, wait for about 5 minutes for the control card to

automatically dial the 3G/4G network to access the network; observe the "internet" light of the control card flashing uniformly and slowly, which means that the cloud platform has been connected, and you can log in to the cloud platform at this time. www.ledaips.com to send programs.

#### Tips

If 4G/4G cannot go online, you can check the following situations:

- 1. Check whether the 4G/5G antenna is tightened;
- 2. Is the Y series wired network unplugged (priority wired network);
- 3. Check whether the APN is correct (you can consult the operator);
- 4. Whether the status of the control card is normal, and whether the available flow of the control card in the current month is greater than 0M;
- 5. Check whether the 4G/5G signal strength is above 13, and the 3G/4G signal strength can be obtained through "Network Status Detection".

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# **AIPS Cloud Platform Register**

#### **Cloud platform account registration**

Open the cloud platform login interface, click the registration button, input information according to the relevant prompts and click submit. After receiving the confirmation email, click the link to confirm and complete the registration.

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#### **Cloud platform account binding**

Enter the web server address and company ID and click Save.

The foreign server address is: <u>www.ledaips.com</u>



## **AIPS Cloud Programming**

#### Simple Program

Make simple program ----only support image or video files.

Click "add simple program" button and set correct screen width and height pixels and

click OK.

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Program List											
+ Add simple program	+ Add advanced	d program					Close	ОК			
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				7							

Input program name and select the material from left side, here are 3 zones including material in the left side, program editing in the middle and preview window in the right

side.

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Choose materials and set program name, can check preview in the right window.



Can set the display duration time here, see screenshot in below:

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After saving you will see the program in the list.

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### Advanced Program

Advanced program including image, video, clock, text, audio and support more layers. Click "add advanced program" button and set correct screen width and height pixels,

Terminal Control	<b>≣</b> Media	Programs	O Glassi Add	program	GPS Task-	L User+	Services 🕷	*	LXH (Authoritanted)	🛇 Last Login 2020-89-27 09:04:40	(D topat	
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Here are 4 zones including media group, time panel, preview and program property.

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Click "New layer" button and select media file then add to the time panel, for example: select video file and add to time panel.

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Then jump to program list interface, you can click green button of create task quickly and then select controller and send.

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Use the "Edit" button to modify the existing program.

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Add multi-line text, click the text (single or muti-text)and add to the time panel.

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Setup parameters for text, including the start and end time.

G Terminal Control EMed:	a EPrograms OCheckTask NiLog+ @GPSTask+ LUser+ #Gervices #	Los (O Las Legin 200549-27 0264-81)  Program properties
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Setup the text color, font size and add more pages, please pay attention to our TIPS

message in below, save and quit after finish.

б <i>F</i> + тТ+   А+		
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Him Press Enter to separate next page, Press Shift + Enter to new a line. Define the following string instead of the value of sensors in terminal: %c is celcius, %f is fahrenhite, %h is humidity, (%c1 %f1) or (%c2 %f2) round to 1 or 2 digit(s) after the decimal point

#### Send Program

Click "create task quickly" button in the program list interface and will jump to the terminal interface directly.

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Select the controller and send program.

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In the bottom part of terminal interface, will see program task then choose the program

task and click send.

Execute task at time				
•	Sen	1 Name	Date created	Create by
G		Name1_Task	2020-09-27 10:31:21	LXH
<b>C</b>		32X32-Y10_Task	2020-09-22 10:17:42	sztest
6		灯杆_Task	2020-09-14 14:02:54	LXH
Ø 🚺		时间_Task	2020-09-09 10:01:08	sztest
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Ø 💼		车前窗150x120_Task	2020-08-30 20:47:47	sztest
Ø D		单面_Task	2020-08-30 19:06:10	sztest
6		公交屏_Task	2020-08-30 18:35:05	sztest
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For more information on the Internet cluster control solution for LED advertising equipment control, as well as related instruction documents, please visit our website: www.ledok.cn for detailed information. If necessary, the online customer service will communicate with you in time. The industry experience will definitely give you a satisfactory answer, Shanghai Xixun sincerely looks forward to the follow-up cooperation with you.

Best regards

Shanghai XiXun Electronics Co., Ltd.

March 2022



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