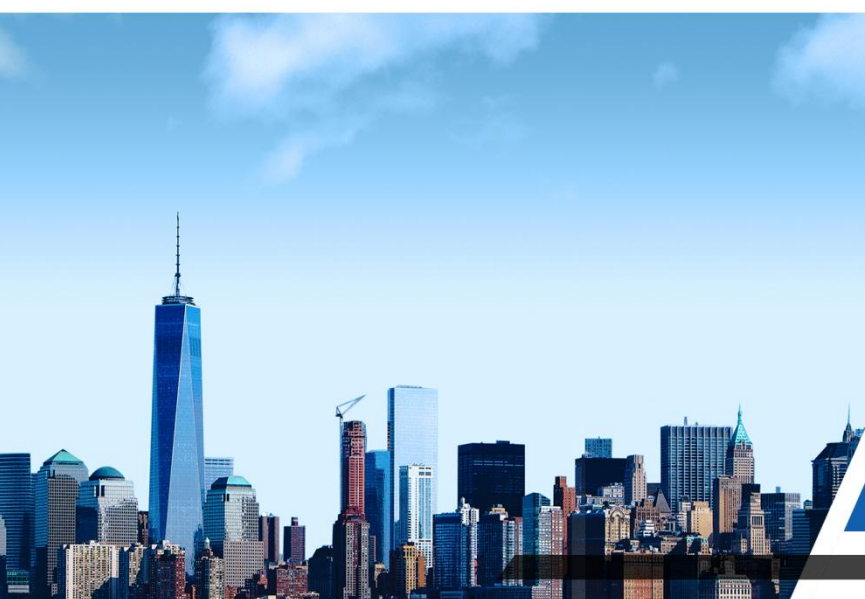




Synchronous/asynchronous sending card Y80

Specification

Version Number: Ver.1.2

statement

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attestation

Product certification is as follows:

1. CE certification, ROHS certification, FCC certification, quality inspection report (MA, ilac-MRA, CNAS);
2. The information release platform has passed the third-level filing certificate of information system security of the Ministry of Public Security;
3. License certificate and record certificate for audiovisual program transmission through information network after material review of the information dissemination platform;
4. Pass the national quality inspection and stable qualified product certificate.

If there is no relevant certification for the country or region where the product is sold, please contact Sysolution Technology immediately to confirm or deal with it. Otherwise, if any legal risks are caused, the customer shall bear them by himself or Sysolution Technology has the right to recover.

update log

No.	version number	Update content summary	Date of revision
1	Ver.1.0	initial issue	2025.03.26
2	Ver.1.1	Update product introduction, pictures, functional features, interface annotation, size diagram, etc	2025.09.04
3	Ver.1.2	Update product introduction, pictures, functional features, interface annotation, size diagram, etc	2025.09.28

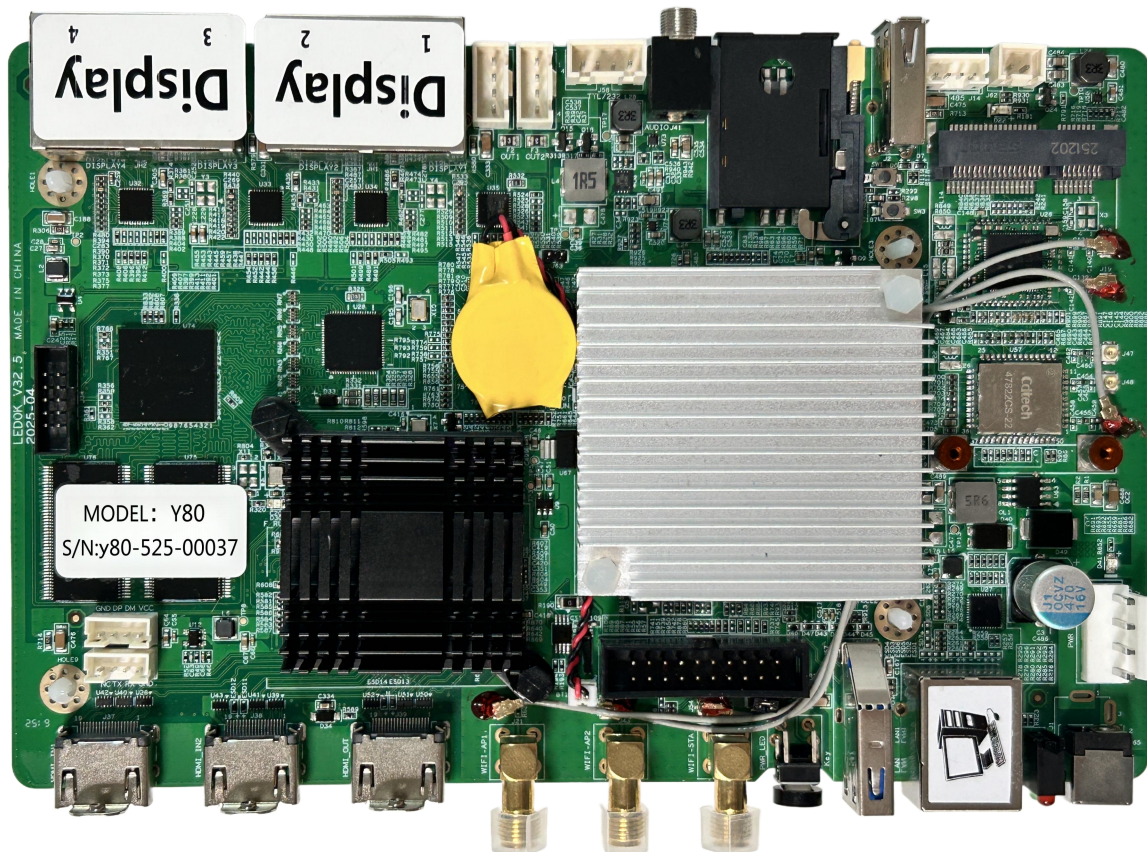
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Product Introduction

Xixun Y80 is a new generation of synchronous and asynchronous main control card launched for LED full-color display screens. It integrates playback and sending functions, and is equipped with professional PC software LedOK Express and mobile APP LedOK lite. It also supports cloud release Ledok Cloud. It provides users with a full-range, multi-mode device management experience. with a clock speed of up to 2.0GHz and a built-in 1 TOPS computing power NPU unit that supports AI and deep learning tasks, balancing performance and scalability. The system is customized based on Android 11, supports third-party app installation, and offers a highly flexible operating experience. This configuration is capable of delivering smooth playback of images, 4K video hard decoding, flash animations, text, and more.

It is suitable for various scenarios such as fixed screens, car screens with high performance requirements, lamp post screens, retail store screens, AI advertising machine screens, extra-long and extra-long irregular screens, etc.

Product Image

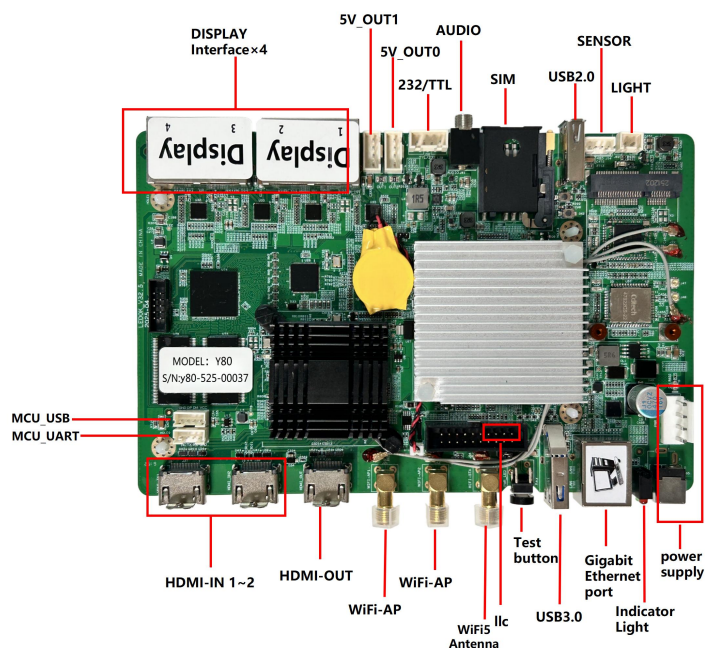


Features

1. Powerful processing performance and quad-core A55 processor up to 2.0GHz. Standard 4GB RAM + 32GB ROM, with an option of 8GB + 64GB. It comes with a deep neural network unit (NPU) with up to 1 TOPS performance, which can meet the requirements of AI deep learning projects.
2. A desktop UI system based on Android11, with third-party apps to be added.
3. Supports multiple video input/output, including one asynchronous Android input and two synchronous HDMI 1.4 inputs, as well as one HDMI 1.4 output. Input resolution ranges from 640*480@60Hz to 4K@30Hz and supports custom resolution.
4. Supports up to 4 gigabit Ethernet outputs, with a maximum load of 260W pixels.
5. Supports HDMI loop-out cascading splicing, supports auto-splicing.
6. Supports WiFi 5 (STA) and WiFi 6 (AP) dual-mode wireless connection; Supports multi-platform wireless projection compatible with Windows, MacOS, iOS, Android systems; With smart routing capabilities, shared hotspots can be created over WiFi/4G/ wired networks.
7. Built-in Mini-PCIe interface, standard support for 4G communication (compatible with modules such as Quectel), and optional upgrade to 5G modules.
8. 1 USB3.0 and 1 USB2.0 ports provide high-speed data transfer and rich device expansion capabilities, compatible with USB flash drives, keyboards, mice, cameras, etc.
9. Powerful iot device access and expansion capabilities, equipped with industrial-grade communication interfaces such as RS485, RS232, TTL, for convenient connection of various iot sensors and industrial devices.
10. Supports two remote power-off interfaces to control LED display power and other devices.

11. Supports brightness sensor interface, on-board temperature probe for automatic brightness adjustment and device ambient temperature detection.
12. Support IP network remote broadcasting (MP3/TTS), two-way video intercom, emergency call and one-click alarm, providing a complete audio communication and emergency solution.
13. The APP intelligent broadcast control enables remote program production, release and control through the LedOK lite APP. Support local program broadcast control and quick production. Supports single-player USB drive playback, plug and play, and file copying.
14. Supporting software: LedOK Express, LedOK lite.

Interface Label



Serial number	Name	Notes
1	Power supply	●4PIN: 3.96mm pitch 12V3A. ●DC sockets: 2.0mm 12V3A
2	Indicator light	●CPU running light: Flashing normal operation.

		• Network light: Flashing network normal.
3	Gigabit Ethernet port	• Connect to the cable network. • Connect to the host software.
4	USB3.0	•USB Debug. • Supports connecting USB devices such as mouse, keyboard, USB flash drive, etc.
5	Test button	• Keys: Reserved function. • Supports one-click switching between synchronous and asynchronous
6	llc	• External temperature and humidity sensor
7	WiFi5 antenna	•WIFI_STA antenna.
8	WiFi-AP 1	• Specification 2T2RWIFI6 antenna interface.
9	WiFi-AP 1	• Specification 2T2RWIFI6 antenna interface.
10	HDMI-OUT	• Maximum support for 4K@30Hz. •HDMI1.4 monitoring.
11	HDMI-IN 1~2	2*HDMI1.4. • Maximum support for 4K@30Hz. • Minimum support 640x480@60Hz.
12		• Compliant with HDMI 1.4b standard and DVI 1.0 standard. • Supports custom resolution.

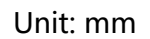
		Width range: 640 to 4096 Height range: 480 to 4096
13	MCU_UART	●MCU debug serial interface
14	MCU_USB	● The MCU reserves a USB interface
15	LIGHT	● Luminance sensor interface (analog)
16	SENSOR	●485 sensor interface (brightness, temperature and humidity)
16	USB2.0	● Supports connecting USB devices such as mouse, keyboard, USB flash drive, etc
17	SIM	●4G/5G SIM card slot
18	AUDIO	●3.5mm analog audio output.
19	232/TTL	●RS232 interface. ●TTL interface.
20	5V_OUT0	●5V/500mA output. Remote power-off 0
21	5V_OUT1	●5V/500mA output. Remote power-off 1
22	DISPLAY interface ×4	4 RJ45 ports ● Maximum load on a single port: 65W points when the input source is 8-bit. ● Equipped with up to 2.6 million pixels.

Product Parameters

Key Hardware Metrics	
Memory	4G
Built-in memory	EMMC32G
Loaded pixels	Four Ethernet ports support 2.6 million pixels, maximum width 4096, maximum height 4096 Note: Asynchronous mode supports maximum width 4096, maximum height 2160
Operating system	Android 11
Play Mode	Supports multiple playback modes such as loop, timed, and interstitial
Network support	4G, Ethernet, WiFi support, wireless peripheral extension
Video playback	Supports MP4 (H.265/H.264, DIVX, XVID) format
USB interface	1 USB2.0 HOST, 1 USB3.0 OTG
Serial port	IIC / TTL / 485/232
WIFI6	Provide AP 2.4G/5G band
WIFI5, BT	WiFi 11ac + BT5.0
GPS	External GPS (optional)
4G/5G	Built-in 4G/5G module communication (optional)
Ethernet	1, 10M/100M/1000M adaptive Ethernet
HDMI output	Support
Audio output	3.5mm audio port
Configuration software	LedOK Express

Working Parameters

Working Parameters	
Input voltage (V)	DC12V
Operating temperature (°C)	- 30 ~ + 75 °C
Operating humidity (%)	0% to 80% no condensation
Storage temperature (C)	-40 to 80 ° C Recommended 5 to 35 ° C
Dimensions (mm)	185 (length) x120 (width)



Accessories

Optional Accessories	Accessory Features
Brightness sensor RL2	Used to automatically adjust screen brightness based on ambient brightness
Temperature sensor RTH2	For detecting current ambient temperature and humidity, real-time display on the screen and platform temperature and humidity monitoring
Eight-element environmental sensor R68	Temperature, humidity, illuminance, PM2.5, PM10, noise, wind speed, wind direction
Power consumption statistics sensor RM1257	Real-time platform statistics of daily electricity consumption
30W speaker RLB1*2	Real-time IP emergency broadcasting requires the power amplifier multi-function card RS56S to be used with the speaker

Notes

1. This product has an input voltage of 12V. When using the M80H series power supply, it is necessary to strictly ensure that the power supply quality meets the standards.
2. When you need to connect or unplug signal lines or control lines, make sure all power lines have been disconnected in advance.
3. If need to install or remove hardware from this product, make sure that all signal lines and power lines are disconnected first
4. Before performing any hardware operations, turn off the power of the control card in advance and release static electricity from your body by touching the ground surface.
5. Use in a clean, dry and well-ventilated environment. Do not use this product in high-temperature, humid or other such environments.
6. This product is an electronic product. Keep away from fire, water and flammable, explosive and dangerous goods.
7. This product contains high-voltage components. Do not open the case or repair it yourself.
8. If notice any unusual conditions such as smoke or odor, please turn off the power switch immediately and contact the dealer.