

Android Control Card Y12

Product specification

Version number: Ver.1.1

Statement

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Update Record

No.	Version	Updates	Revision Date
1	Ver.1.0	Initial Release	2022.11.23
2	Ver.1.1	Content update	2024.01.03

The document is subject to change without prior notice.

Products

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Xixun Y12 supports -40°C to 95°C operation, comes with sixteen hub75 ports, no need to receive the card directly with the screen; supports access to the cloud platform release, easy to achieve the display off-site cluster control; hardware and software design fully consider the user deployment, operation and maintenance scenarios, making deployment easier, more stable operation, more efficient maintenance; with a safe and stable function design, for users to save space, reduce It can be used for small load scenarios such as vehicle-mounted screens, small traffic screens, community screens and light pole screens.

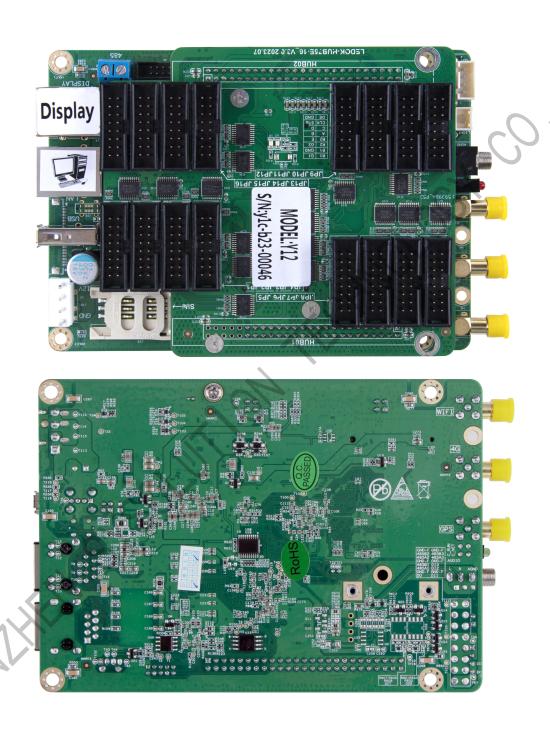
The Y12 series is an industrial grade quad-core processor with four integrated Cortex-A35, dual-core Mali-G31 GPU, quad-core main frequency of 1.5GHz, stable operation at 90°C and memory support of 1GB+8GB (2GB+16GB compatible) LPDDR3. The chip can support GSM, WCDMA, TD-SCDMA, EVDO The chip can support GSM, WCDMA, TD-SCDMA, EVDO, TDD-LTE, FDD-LTE and other standards, and is a highly integrated product.

Functional Features

- 1. Sixteen mouth hub75 output direct output to ensure stability of picture transmission.
- 2. Support for external eight-element environmental sensor R68 via 485 interface to display environmental information without secondary development.
- 3. Support for external GPS positioning and timekeeping modules to ensure synchronisation of multi-screen picture playback.
- 4. Support for two remote power cuts, one to control the screen switch and one to control the street light switch.
- 5. Support optional 4G module, the module model varies from country to country, please provide the country of use for shipment.
- 6. On-board WiFi module for wireless communication.
- 7. Support for AP mode, Station mode.
- 8. Support for secondary development and remote cluster control on cloud platforms.
- 9. Built-in Web Sever, supporting local webpage production, programme distribution and display control for PC, mobile phones, pads and other user terminals, remote programme distribution and display control for clusters, remote monitoring of screen status for clusters.
- Powerful processing performance with a 4-core processor at 1.5GHz, support for 1080P
 video hard decoding and 1GB of running memory.
- 11. 8 GB of internal storage space, with 4 GB available to the user.
- 12. The user terminal connects to the Y12's own WiFi hotspot, with the default SSID "SN.

- 13. number" and the default password "12345678".
- 14. Support for GPS timing/time alignment.
- 15. Automatic adjustment of the display brightness, which requires a matching brightness sensor.
- 16. Support for playing programmes by way of programme lists.
- 17. Centralised setting of timer on/off, volume and brightness through the management system.
- 18. Support for USB cameras.
- 19. Support for NTP accurate automatic time calibration.
- 20. Supporting software: AIPS 4.0 cloud publishing platform, PC software LedOK Express, mobile APP: LedOK Kit.

Product Appearance



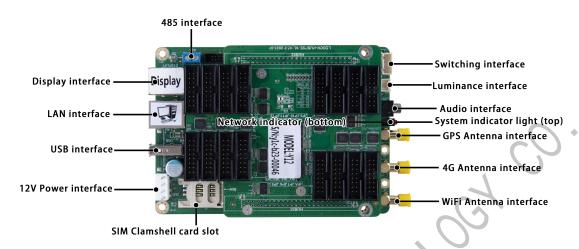
Product Parameters

Product features	Description		
Model	Main: Y12 (no 4G), Y12-CH (China 4G all-network), Y12-G (global, recommended abroad) Y12-NA, Y12-EU, Y12-LA (available in bulk with cost in mind, samples are recommended for global models)		
Pixel	Y12: 90,000 dots, resolution 256 (W)*256 (H) or 512*128, custom resolution support		
Communic ation methods	Network port, WiFi, USB stick, optional 4G module		
СРИ	Cortex-A35 quad-core at 1.5GHz		
GPU	Mali-G31MP2 OpenGL ES3.2, Vulkan 1.0, OpenCL 2.0 Dvalin-2EE		
System memory	8GB Emmc+1GB LPDDR3		
Operating systems	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 x USB 2.0 interface. 3. Support for importing and playing programmes from a USB stick. 4. 1 x RS485 interface, 1 x RS232, 1 x TTL serial port. Connection of brightness sensors, other sensors, and connection of other modules for corresponding functions. 		
Configurati on software	LedOK Express		
Supported Bands			

Model	3G/4G bands (optional)	Certification
Y12-CH	-China (China/India)	
	FDD-LTE: B1/3/5/8	
	TDD-LTE: B38/39/40/41	
	TDSCDMA: B34/39	Mandatory certification: SRRC/ NAL/ CCC Other: WHQL
	WCDMA: B1/8	Other, WHQL
	CDMA 1X/EVDO: BC0	
	GSM: B3/5/8	,00
		Carrier certification: AT&T/ T-Mobile/ Rogers/
Y12-NA	-North America (North	TelusVerizon/ AT&T (FirstNet)/ T-Mobile/ U.S.
	America)	Cellular/ Rogers/ Telus
	FDD-LTE: B2/4/5/7/12/13/17	Mandatory/conformance certification: FCC/
	WCDMA: B2/4/5	IC/ PTCRB
		Other: WHQL
	-Eurasia	
Y12-EU	(EMEA/Korea/Thailand/India	Operator certification: Vodafone/Deutsche
	and other Asian countries)	Telekom/SKT/ Telefónica
	FDD-LTE: B1/3/5/7/8/20	Mandatory/conformance certification: GCF/
	TDD-LTE: B38/40/41	CE/ KC/ NCC/ RCM/ FAC/ NBTC/ ICASA
	WCDMA: B1/5/8	Other: WHQL
	GSM: B3/5/8	

Y12-LA	-Latin America (Latin America / Australia / New Zealand) FDD-LTE: B1/3/5/7/8/28 TDD-LTE: B40 WCDMA: B1/2/5/8 GSM: B2/3/5/8	Mandatory certification: GCF/ FCC/ Anatel/ NCC/ RCM Other: WHQL
Y12-G	-Global (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: Quad-band	Carrier certification: Deutsche Telekom/ Verizon/ AT&T/ Sprint/ U.S. Cellular/ Telus Mandatory/conformance certification: GCF/ CE/ FCC/ PTCRB/ IC/ Anatel/ IFETEL/ SRRC/ NAL/ CCC/ KC/ NCC/ JATE/ TELEC/ RCM/ NBTC/ IMDA/ ICASA Other: WHQL
Y12-J	-Japan (Japan) FDD-LTE: B1/3/8/18/19/26 TDD-LTE: B41 WCDMA: B1/6/8/19	Carrier certification: NTT DOCOMO/SoftBank/ KDDI Mandatory certification: JATE/ TELEC Other: WHQL

Interface Labelling



Interface characteristics		Description	
	Power connector	+5V power supply	
	LAN port	Gigabit network input	
Input interface	USB port	USB2.0 interface, support for U disk programme import and playback, Debug interface	
	Brightness line interface	RL2	
	Switching interface	(DI1, DI2, DI3, GND) Open/close door, manhole cover, electromagnetic detection	
	485 interface	Baud rate 9600	
4.	TTL/232 interface	Baud rate 9600	
	GPS interface	GNSS GPS/Beidou/Glonass	
Output	WIFI interface	IEEE 802.11b/g/n 2.4G	
Connector	4G interface	4G antenna interface	
	Audio output	Stereo audio output	
	connector	External run indicator, external reset	
	Remote control interface	Remote power off	

display interface	Gigabit network output
HUB75 interface	16 HUB75 signal outputs

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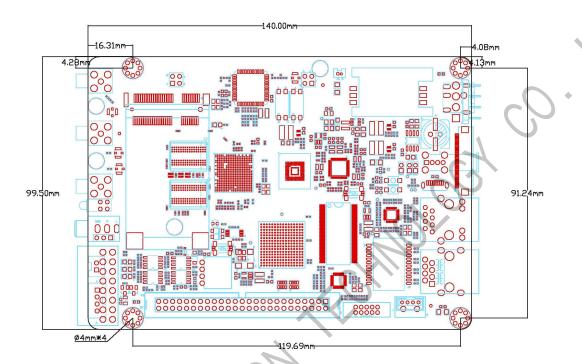
Working Conditions

Working parameters		
Operating voltage (V)	12V	
Operating current (A)	0.9A Max: 3A	
Maximum operating power	15	
consumption (W)	13	
Operating temperature (°C)	-40°C to +95°C	
Storage temperature (°C)	-40°C ~75°C, recommended 5°C ~35°C	
Humidity of the working	100/ 000/	
environment (%)	10% ~ 90%, no condensation	
Size (mm)	170cm x 99.5cm	

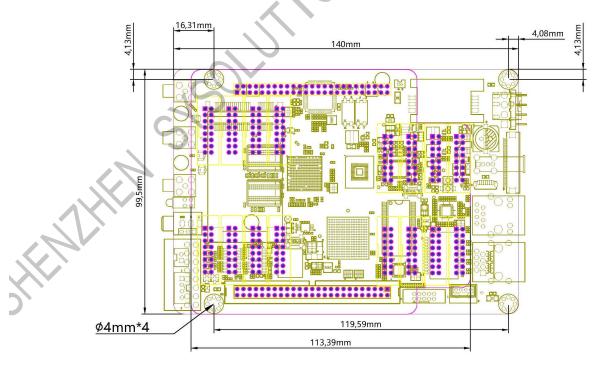
- 1. It is recommended that the control card be powered by a separate (12V/3A or higher) power supply.
- 2. High operating temperatures can cause a dramatic drop in power supply efficiency. If the control card and module share the same power supply, please ensure that the control card has a stable voltage and a reasonable actual current supply.

Dimensional Dawings

No HUB 75 plate size



With HUB 75 adapplate size



Unit: mm

Accessories

Standard accessories	Size/quantity
WiFi Patch Antenna	1.5m*1
4G Suction Cup Antenna	3m*1
Optional accessories	Accessory functions
Humidity line RH1	For detecting the current humidity of the external environment
Luminance line RL2	For sensing the brightness of the current environment
Optional multifunction card RS5 with integrated synchronisation module, 5-way	r'Ckii
voltage detection, door and smoke	Power supply detection
interface (optional RD1 door sensor, RM1	
smoke sensor) 8 in 1 Environmental Sensor R68 / 6 in 1	Temperature, humidity, illuminance, PM2.5, PM10, noise, wind speed, wind direction
Power statistics RM1275	View daily electricity consumption in real time
G11 GMous Multimode	GPS positioning module
30W speaker*2 RLB1	2 remote broadcasts per screen with real-time shouting

Matching accessories available (optional for the above, additional models to be ordered on request)

Cautions

- 1. It is strictly forbidden to disassemble the product yourself.
- 2. It is strictly forbidden to plug and unplug the SIM card with electricity.
- 3. The use of inappropriate voltages for power supply is strictly prohibited.
- It is strictly forbidden to share the screen body 200W/5V switching power supply to power Jest of the state the card, which will lead to unstable system operation and low speaker sound.