



Android Control Card Y40

Product Specification

Version: Ver.1.5

Statement

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Update Record

No.	Version	Updates	Revision Date
1	Ver.1.0	Initial Release	2023.06.25
2	Ver.1.1	Content update	2023.07.13
3	Ver.1.2	Parameter update	2023.09.01
4	Ver.1.3	Image Update	2023.12.29
5	Ver.1.4	Content Update	2024.05.13
6	Ver.1.5	Content Update	2024.10.23

The document is subject to change without prior notice.

Product Introduction

Sysolution Y40 supports -40°C to 90°C operation; 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 the wiring. It can be used for small load scenarios such as vehicle-mounted screens, small traffic screens, community screens and light pole screens.

The Y40 series of 1.5GHz, stable operation at 90°C and memory support of 1GB+8GB (2GB+16GB compatible) LPDDR4. The chip can support GSM, WCDMA, TD-SCDMA, EVDO, TDD-LTE, FDD-LTE and other standards, and is a highly integrated product.

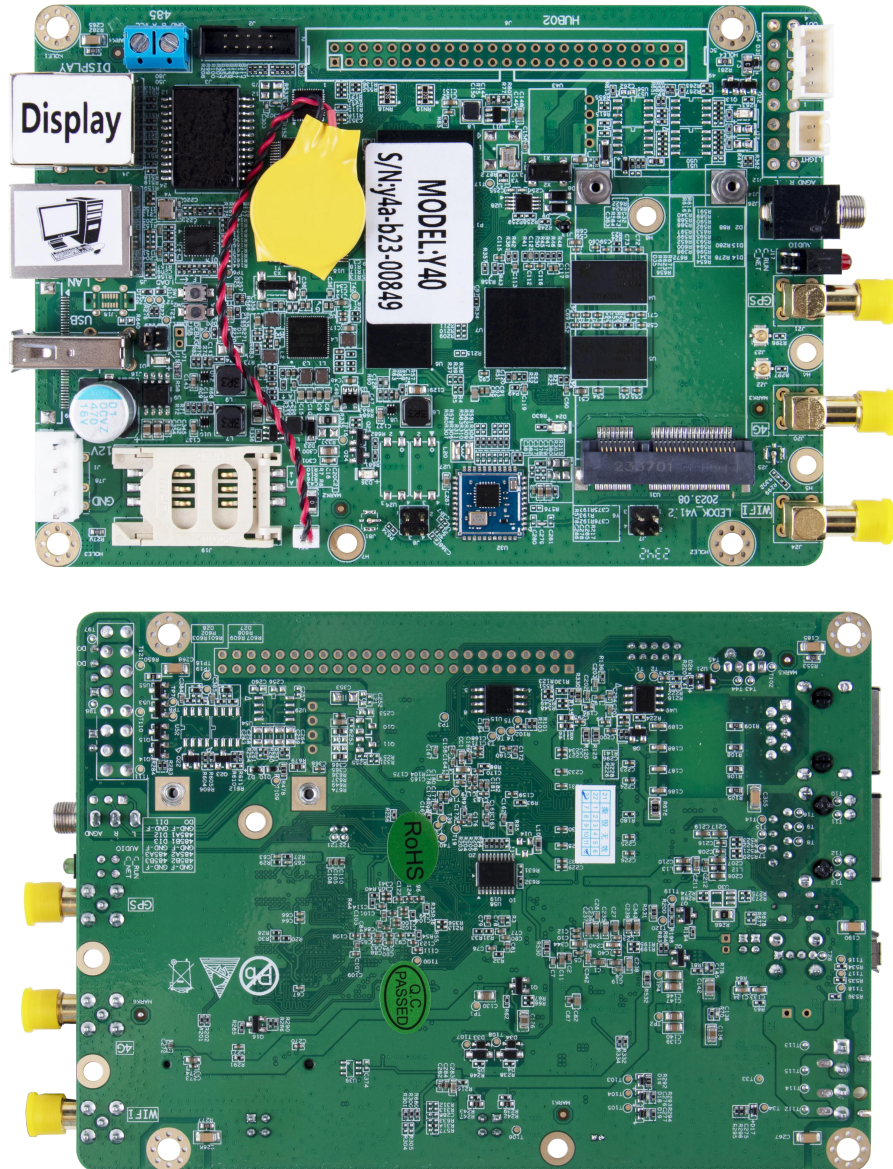
Functional Features

1. Support for external eight-element environmental sensor R68 via 485 interface to display environmental information without secondary development.
2. Support for external GPS positioning and timekeeping modules to ensure synchronization of multi-screen picture playback.
3. Support remote power off, control screen switch, power off.
4. Support optional 4G module, the module model varies from country to country, please provide the country of use for shipment.
5. On-board WiFi module for wireless communication.
6. Support for AP mode, Station mode.
7. Support for secondary development and remote cluster control on cloud platforms.
8. 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.
9. support for 1080P video hard decoding and 1GB of running memory , 8 GB of internal storage space, with 4 GB available to the user.
10. The user terminal connects to the Y40's own WiFi hotspot, with the default SSID "SN number" and the default password "12345678".
11. Support for GPS timing/time alignment.
12. Automatic adjustment of the display brightness, which requires a matching brightness

sensor.

13. Support for playing programmes by way of programme lists.
14. Centralized setting of timer on/off, volume and brightness through the management system.
15. Support for USB cameras.
16. Support for NTP accurate automatic time calibration.
17. Supporting software: LEDOK IoT Cloud Platform, PC/Mac software LedOK Express, mobile APP: LedOK Lite.

Product Appearance



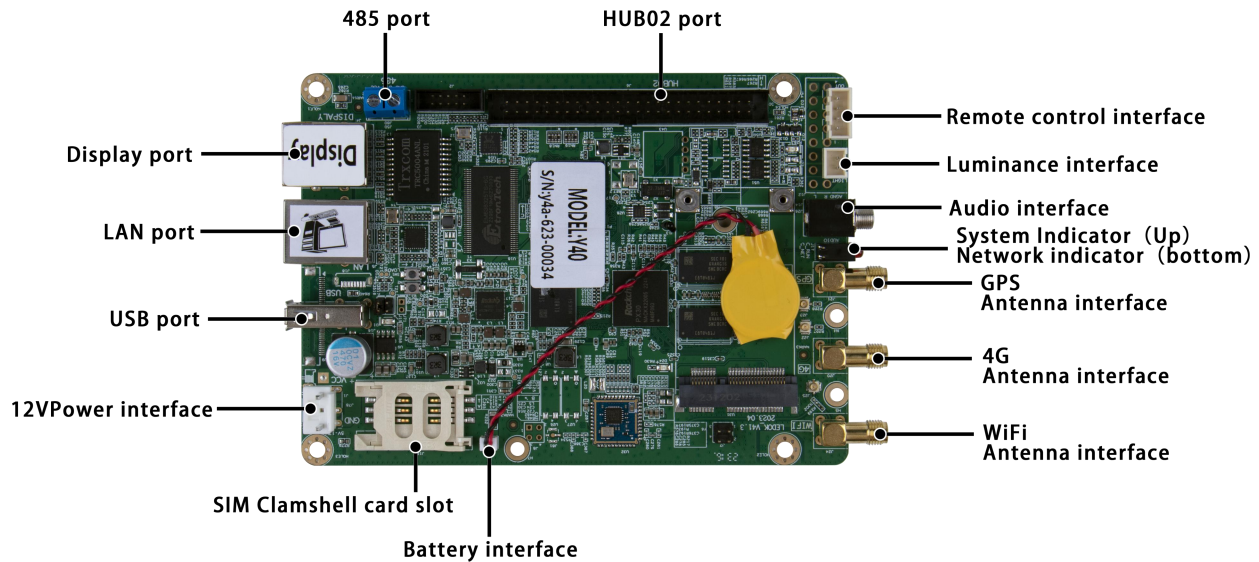
Product Parameters

Product features	Description	
Model	Main: Y40 (no 4G),Y40-CH(China,4G), Y40-G (global, recommended abroad) Y40-NA, Y40-EU, Y40-LA (available in bulk with cost in mind, samples are recommended for global models)	
Pixel	Y40: 650,000 dots, maximum resolution 1280 (W)*512 (H) or 512*1280, custom resolution support	
Communication methods	Network port, WiFi, USB stick, optional 4G module	
System memory	8GB Emmc+1GB LPDDR4	
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, Jack 3.5MM dual track. 2. 1 x USB 2.0 interface. 3. Support for importing and playing programmes from a USB stick. 4. 1 x RS485 interface, Connection of brightness sensors, other sensors, and connection of other modules for corresponding functions.	
Configuration software	LedOK Express	
Supported Bands		
Model	3G/4G bands (optional)	Certification
Y40-CH	-China (China/India) FDD-LTE: B1/3/5/8 TDD-LTE: B38/39/40/41	Mandatory certification: SRRC/ NAL/ CCC Other: WHQL

	TDSCDMA: B34/39 WCDMA: B1/8 CDMA 1X/EVDO: BC0 GSM: B3/5/8	
Y40-NA	-North America FDD-LTE: B2/4/5/7/12/13/17 WCDMA: B2/4/5	Carrier certification: AT&T/ T-Mobile/Rogers/ TelusVerizon/AT&T (FirstNet)/T-Mobile/U.S. Cellular/Rogers/ Telus Mandatory/conformance certification: FCC/ IC/ PTCRB Other: WHQL
Y40-EU	-Eurasia (EMEA/Korea/Thailand/India and other Asian countries) 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 Mandatory/conformance certification: GCF/ CE/ KC/ NCC/RCM/ FAC/ NBTC/ICASA Other: WHQL
Y40-LA	-Latin America (Latin America / Australia / New Zealand) FDD-LTE: B1/3/5/7/8/28 TDD-LTE: B40	Mandatory certification: GCF/ FCC/ Anatel/ NCC/RCM Other: WHQL

	WCDMA: B1/2/5/8 GSM: B2/3/5/8	
Y40-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: 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
Y40-J	-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



No.	Interface model	Description
1	Display interface	Gigabit network output
2	LAN port	100 Mbit network input
3	USB port	USB2.0 interface, support for U disk programme import and playback, Debug interface
4	Power connector	12V power supply
5	SIM Flip Card Slot	4G card placement
6	Battery Interface	connect a battery
7	GPS interface	GNSS GPS/Beidou/Glonass
8	4G interface	4G antenna interface
9	WIFI interface	IEEE 802.11b/g/n 2.4G
10	Audio output connector	Stereo audio output External run indicator, external reset
11	Brightness line interface	RL2

12	Remote control interface	Remote power off
13	HUB02 interface	adaptor plate
14	485 interface	Baud rate 9600

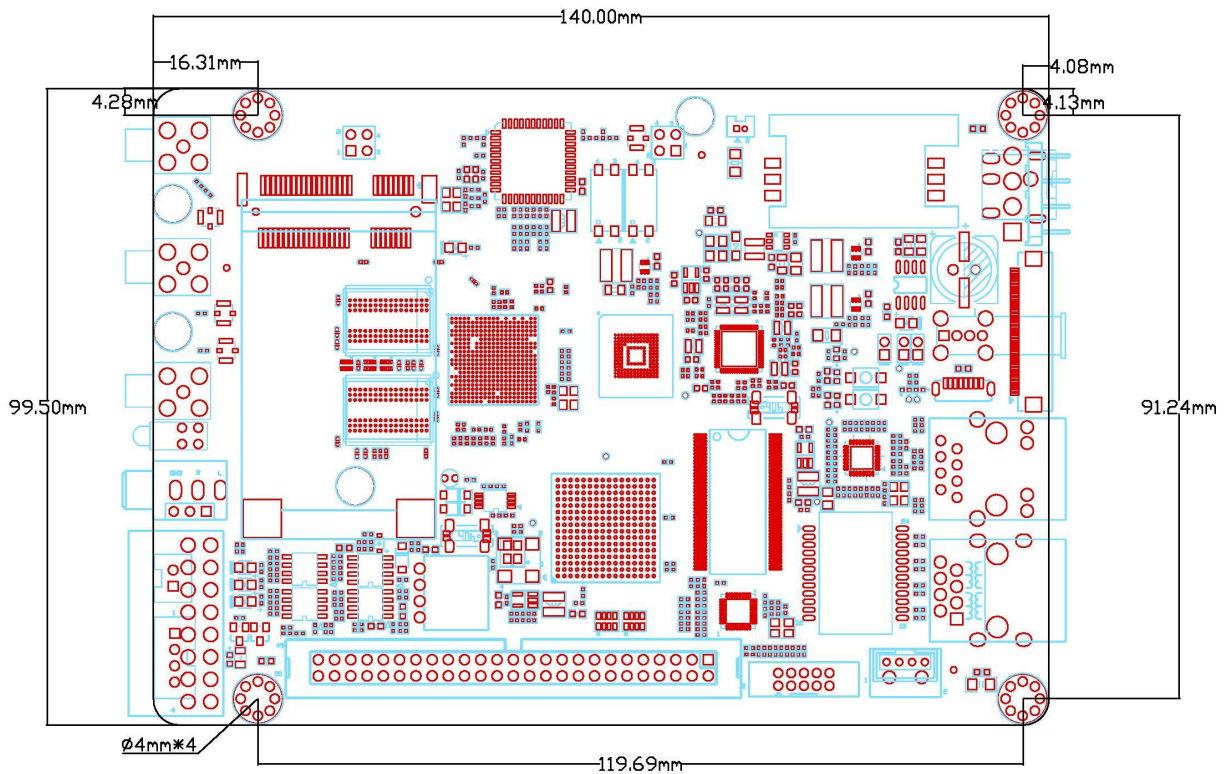
Working Conditions

Working parameters	
Operating voltage (V)	12V
Operating current (A)	0.9A Max: 3A
Maximum operating power consumption (W)	15
Operating temperature (°C)	- 40°C ~ + 90°C
Storage temperature (°C)	-40°C ~75°C, recommended 5°C ~35°C
Humidity of the working environment (%)	10% ~ 90%, no condensation
Naked card size (mm)	140*99.5mm
net weight (g)	114g
Weight with packaging box (g)	245g

Important note:

1. The main control card must use more than 12V5A independent switching power supply, shared screen 5V switching power supply leads to low system voltage, the system card failure rate increased by 50%;
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 Drawing



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 sensing the humidity of the current environment
Luminance line RL2	For sensing the brightness of the current environment
8 in 1 Environmental Sensor R68	Temperature, humidity, illuminance, PM2.5, PM10, noise, wind speed, wind direction
Power statistics RM1275	View daily electricity consumption in real time
G10	GPS positioning module
33W 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 by 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.
4. It is strictly forbidden to share the screen body 200W/5V switching power supply to power the card, which will lead to unstable system operation and low speaker sound.