

P10600HY0700_T01

Consuming grade Android LCD Module

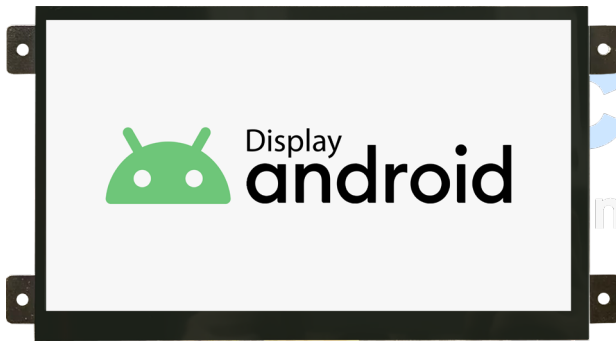
P10600HY0700_T01 is an industrial-grade Android serial port LCD screen based on the Allwinner A133 processor. This product integrates a 4-core Arm® Cortex®-A53 CPU and Imagination PowerVR GE8300 GPU, featuring powerful hardware encoding and decoding capabilities and a rich set of screen interfaces. Video decoding supports up to 4K@30fps decoding and 1080P@60fps encoding, offering enhanced performance, lower power consumption, and stronger graphics processing capabilities.

Supported by the Android 10 system, with industrial-grade parameter performance, it brings an excellent and stable experience to your product.

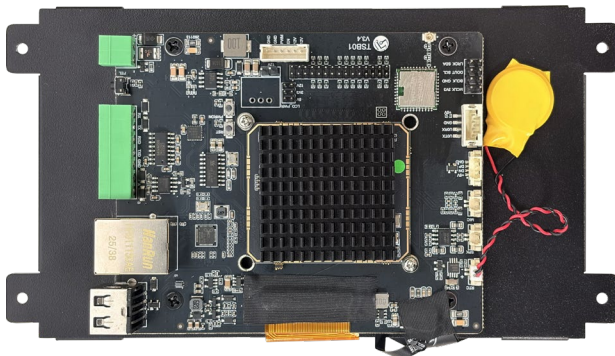
Application Area

- ✓ Security field
- ✓ Power industry
- ✓ Energy and chemical industry
- ✓ Industrial control equipment

Front View



Back View



About PROCULUS

As a custom LCM manufacturer that is focusing on all-in-one TFT LCDs, we offer LCM solutions based on your requirements.

Our solutions include UART, Android and HDMI. They simplify GUI development and are cost-effective.

Product Feature

- Allwinner A133
- RAM 1GB
- ROM 8GB
- Support Android、Linux
- Display size 1024×600
- Display Brightness 350nit
- WIFI Support 2.4G/5G frequency band
- Bluetooth 5.2
- Ethernet Supports 10m/100m/1000m

Version Info

Ver.	Date	Descriptions
V1.0	2026/06/01	First release

For more detailed information about Proculus Technologies LCD module solutions, visit www.proculustech.com

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Detailed Parameters

Core Performance

CPU	Quad-Core Arm Cortex-A53, up to 1.7GHz
RAM	1G/2G/4G LPDDR4
eMMC	8G/32GB EMMC
GPU	Imagination PowerVR GE8300
NPU	-

System Version

Android	Support Android 10
Linux	Support ubuntu18.04+qt5.12、Ubuntu18.04+xfce

Expansion Device

MIC	Audio input interface
Speaker	Audio output interface
Buzzer	-
GPIO	-
IIC	Support
TF Card	-
HDMI OUT	-
USB Camera	Support

Display Performance

Display Color	16.7M (16777216) colors, 24-bit color 8R8G8B
Display Size	154.21 mm(W)×85.92 mm(H), 1024×600
View Area Size	155.96 mm(W)×88.87mm(H), 1024×600
Resolution	1024×600
Backlight Mode	LED
Luminance	350

Voltage Current

Parameter	Condition	Min	Typ	Max	Unit
Working Voltage	-	12	12	24	V
Working Current	-	-	400	-	mA
Power	12V 2A DC (Recommended)				

Visual Angle Parameter

Visual Angle (CR≥10)	Angle	Angle Parameter	Min	Typ	Max	Unit
	θL	Φ=180° (9 o'clock)	70	80	-	Deg
	θR	Φ=0° (3 o'clock)	70	80	-	
	θT	Φ=90° (12 o'clock)	50	60	-	
	θB	Φ=270° (6 o'clock)	60	70	-	

Reliability Testing

Parameter	Condition	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	°C
Storage Temperature	-	-30	25	80	°C
Working Humidity	25°C	10%	60%	90%	RH
Protection Paint	-	-	无	-	-

Serial Port Parameter

Parameter	Condition	Min	Typ	Max	Unit
Baud Rate	Standard	1200	9600	115200	bps
Serial Mode	-	User Interface	-		

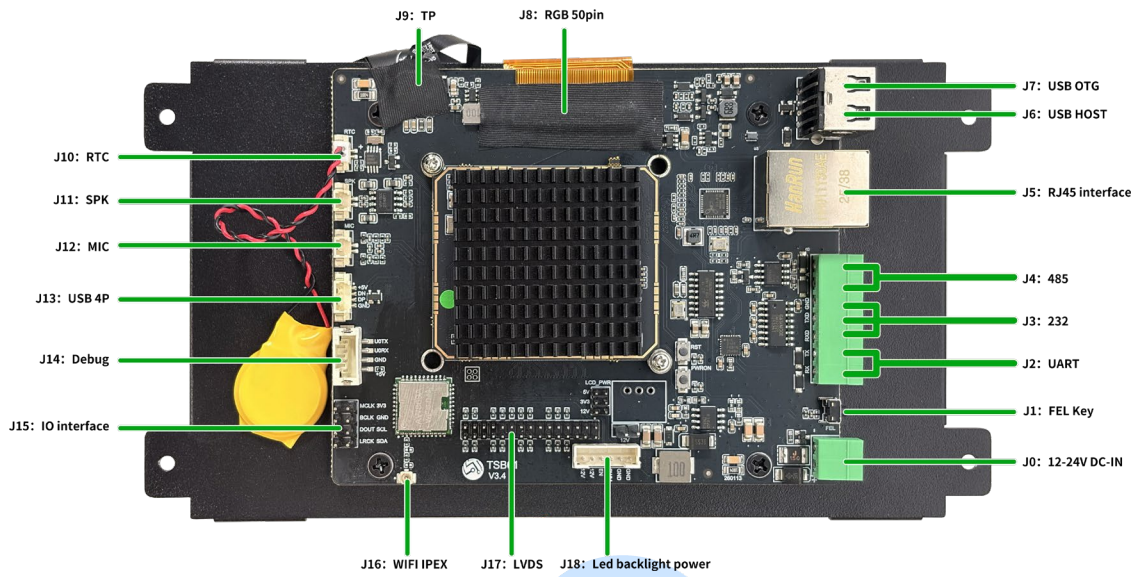
Interface Parameter

Interface	Parameter	Interface	Parameter
USB	USB 2.0 HOSTx1. USB OTGx1	WIFI	Support 802.11a/b/g/n/ac/ax Wi-Fi 2.4/5G
Bluetooth	Bluetooth 5.2	4G	-
Ethernet	Support 10m/100m/1000m Ethernet	Gyroscope	-
NFC	-	Light sensor	-
M.2	-	Infrared receiver	-



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Interface Specification



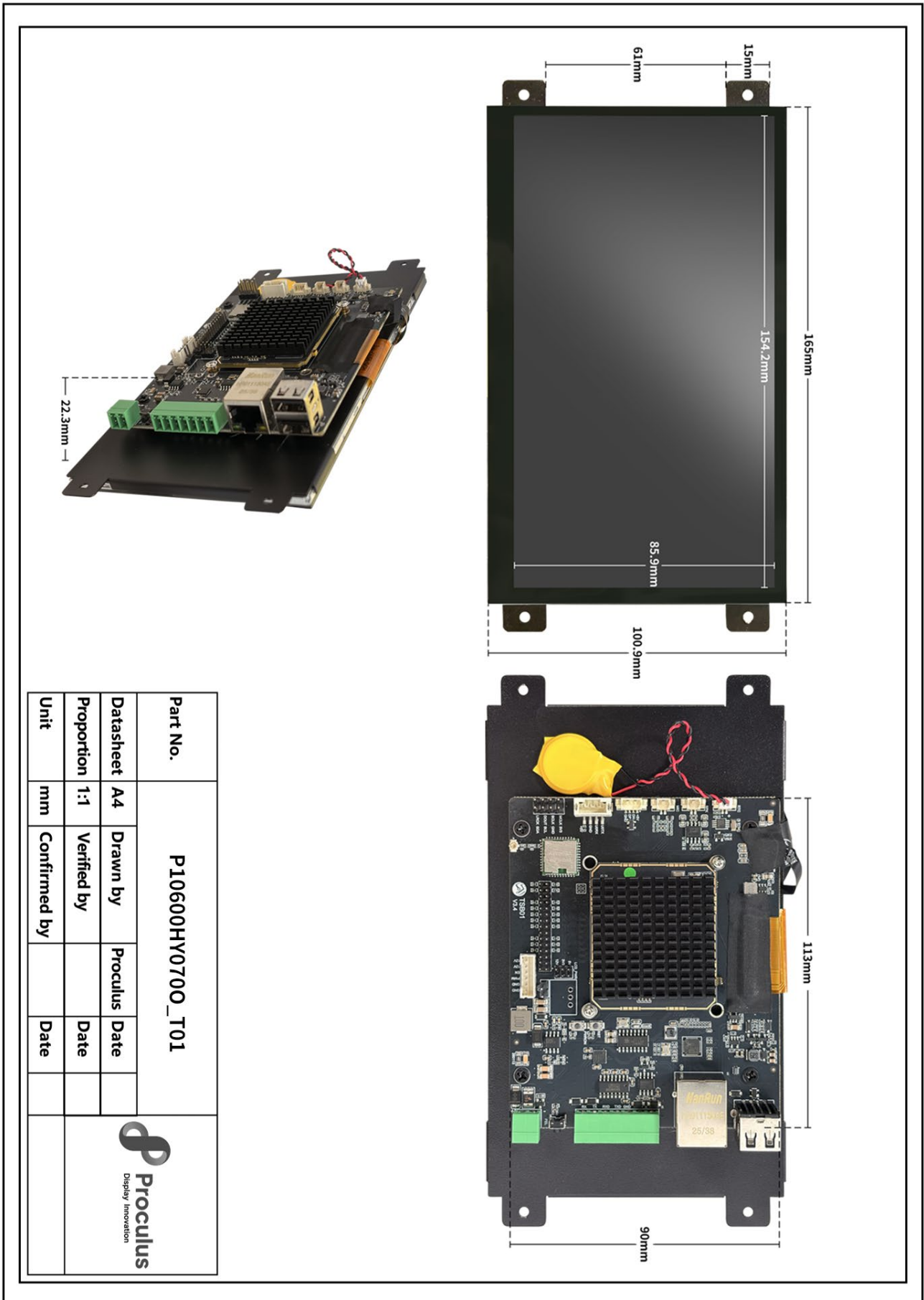
Num.	Interface	Description
J0	Power	12V/2A power supply (maximum voltage ranges from 12V to 24V DC)
J1	FEL Key	Enter system flashing mode
J2	UART	Pin definition:TX2,RX2
J3	RS232	Pin definition:GND,TX1,RX1
J4	RS485	Pin definition:B,A
J5	RJ45 interface	Support 10M/100M/1000M network
J6	USB 2.0 HOST	Support USB Peripherals/Support dual USB parallel use
J7	USB OTG	OTG /App debugging/ Firmware upgrade interface
J8	LCD interface	-
J9	TP interface	-
J10	RTC interface	Supply system RTC
J11	SPK	Audio output interface
J12	MIC	Audio input interface
J13	USB interface	USB 4PIN, Pin definition:5V,DN,DP,GND
J14	Debug interface	-
J15	IO interface	Pin definition:MCLK 3V3,BCLK GND,DOUT SCL,LRCK SDA

Num.	Interface	Description
J16	WIFI IPEX	WIFI antenna interface
J17	LVDS interface	-
J18	Led backlight power	-

Note: The interface sequence is sorted from top to bottom and from left to right.



Product size drawing (product without shell)



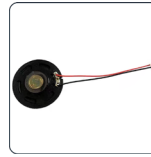
Support peripheral accessories



GPS function

Used for GPS positioning, map positioning, real-time location query

Support status: ❌



Loudspeaker

Used to output audio and play music

Support status: ✅



4G function

Support 4g Internet access function, the following modules can be selected:

1-EC20: Signal is more stable, CAT4

2- EC25: CAT4

Support status: ❌



HDMI Output

Used to output screen display

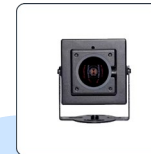
Supported status: ❌



Extended storage

Expand storage space and export data for storing important data that can be migrated

Supported status: ❌



USB HD camera

Support 720P/1080P HD camera picture

Support status: ✅


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Service

Customers enjoy 1-year free warranty and lifetime maintenance guarantee for the purchase of our products, and users can also extend the warranty period by paying.

1. one year warranty: from the date of purchase enjoy 1 year free maintenance service.
2. lifetime maintenance: beyond the warranty period of the product, we provide paid maintenance services.
3. warranty scope: due to human use factors or force majeure caused by the damage is not within the scope of warranty; The CPU is not covered by warranty.

In addition, all the purchase of our company's products will be recorded, after-sales service personnel will actively and regularly ask you about the use of the industrial control board you have purchased, give suggestions on your product maintenance, or reply to possible problems in a timely manner and answer.

The quality determination criteria for products leaving the factory are as follows:

1. Appearance of the LCD screen:

The standards for dust, black spots and white spots on the LCD screen are that there should be no more than 3 spots inside the screen, the size should not exceed 0.35mm, and the scratches should not exceed 5mm.

2. Overall machine function test:

When starting up, there should be no black screen failure, screen flickering, white screen or screen flashing. The USB interface can read and write normally. The OTG interface can burn the system. The serial port function communication is normal. The speaker and microphone interfaces can broadcast and receive sound normally. The buzzer function sounds normally without tearing.

3. Overall appearance of the machine:

No missing PCBA parts, no damaged components. The WIFI antenna needs to be fixed with hot melt adhesive, and the LCD screen needs to be pasted with protective film.

Technical Support

Within 12 months from the date of purchase, front-line engineers will provide timely support during working days and working hours. The scope of support is as follows:

1. Support users to run Android system and related interface test programs.
2. support the common configuration of Android system
3. support customer Android product hardware support

Notes

1. Do not plug and remove the core board and peripheral modules with power on
2. Please follow all warnings and guidelines on the product
3. Please keep this product dry. If accidentally splashed or soaked by any liquid, power off immediately and allow to dry fully
4. Pay attention to the ventilation and heat dissipation of the product during use to avoid damage to components caused by excessive temperature
5. Do not use or store this product in a dusty or dirty environment
6. Do not use this product in alternating hot and cold environment to avoid damage to components
7. Do not handle the product roughly. Falling, knocking or violent shaking may damage the line and components
8. Do not use organic solvents or corrosive liquids to clean the product
9. Do not repair or disassemble the company's products by yourself. If the products fail, please contact the company in time for maintenance
10. Unauthorized modification or use of unauthorized accessories may damage the product, and the resulting damage will not be guaranteed
11. If the LCD screen continuously works at the highest brightness, the LCD backlight life cycle will be halved; If a high contrast static display is displayed for more than 30 minutes, it may cause residual images on the LCD screen. You are advised to add a screensaver to avoid this problem

Disclaimer

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