上海冠显光电科技有限公司
Shanghai Top Display Optoelectronics Co., LTD

MODEL	:	**TY040WVP08CF**
ISSUED DATE	:	**2025-4-24**
VERSION	:	**1.1**

● Version Record

Issued Date	Description	Version	Editor	Audit
2025-4-21	Final release	1.0	Pearl	
2025-4-24	Update voltage range and structural drawings	1.1	Pearl	

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1. Product Specifications

● Product parameter	
Model	TY040WVP08CF
Product serial	with housing series
Core processor	TR660
Size	4.0 inch
Resolution	480RGB ×480
Active area(mm)	71.86 (W) × 70.18 (H)
Product size(mm)	86.4(W)×86.4(H)×39.75(T)
Color	16.7M，24 bit RGB
Storage	Customer available 60 M
Pictures format	JPG/PNG
Video	H.264 video format
Audio	Support the format of MP3 and WAV
Download pictures	Micro USB
Firmware update	Micro USB
● LCD screen	
Display type	TFT LCD IPS
Back light	LED
Brightness(cd/m²)	430
Backlight life(hour)	30000

Contrast	1200
Perspective(T/B/L/R)	(85/85/85/85)
● Touch panel	
Touch mode	Capacitive touch screen
Input mode	Finger
● Environmental electrical parameters	
Voltage	Method 1: 7.1~58V DC, typical 24VDC Method 2: POE
Power consumption	24V/72mA (Max brightness) 24V/37mA (Backlight off)
Working temperature	-20℃ ~ 70℃
Storage temperature	-30℃ ~ 80℃
Working humidity	10%~90%RH
Storage humidity	10%~90%RH
● Communication interface parameters	
Communication mode	485/Ethernet
Communication plug-in specification	3.81MM - 6P Straight Pin/Phoenix Terminal Female Connector
● Other hardware specifications	
RTC	Support
Speaker	Support

POE	Support
● product certification	
environmental grade	RoSH II

2. Reliability Test

2.1. ESD Test

2.1.1. Implementation Standards

Implementation standards	GB/T 17626.2
Performance criteria	B

2.1.2. Test Environment

Test ambient temperature: 25℃

Test environment humidity: 50%

Test process: place the product on the test bench, conduct contact and air discharge in turn around the iron frame of the serial port screen and the display area, and observe whether there is any abnormal reset and restart display.

Test remarks: *The current tests are all bare product tests. On the actual product assembly machine, keep the screen and the machine well grounded, or the touch panel surface is protected by PVC or a cover plate, the ESD performance index of the whole machine will be higher.*



2.1.3. Test Data Results:

Discharge type	Discharge value	Test Results	Performance Criteria
Contact	±8KV	Test Passed	A
Air Discharge	±8KV	Test Passed	A

2.2. Electrical fast transient group pulse testing (EFT)

2.2.1. Implementation standards

Implementation standards	GB/T 17626.4

2.2.2. Test Environment

Test ambient temperature: 25℃

Test environment humidity: 50%

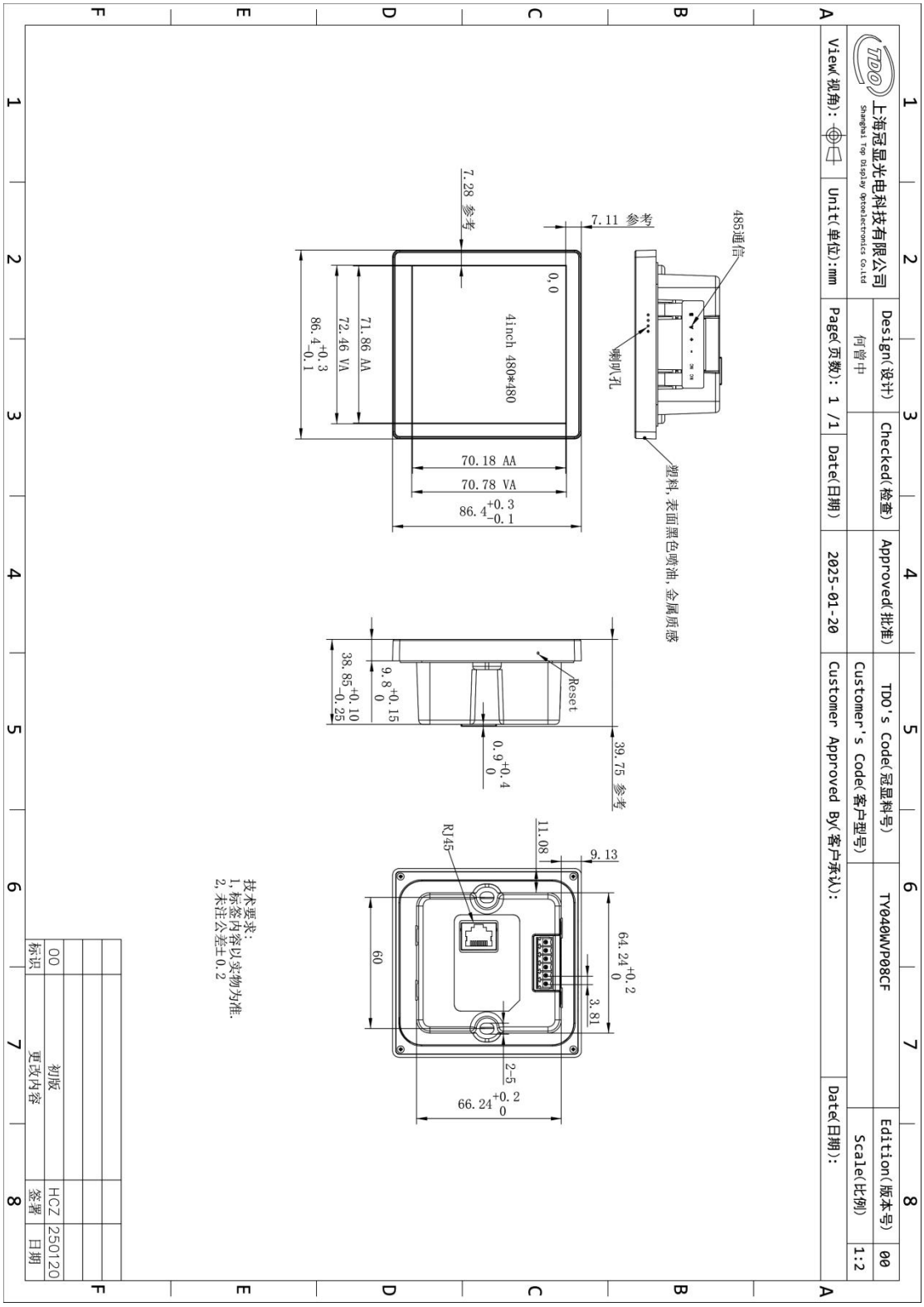
Test process: place the product in the high and low temperature test box, and power the screen through the power supply after the pulse group is coupled by the group pulse generator, and observe whether there is abnormal reset and restart display and other phenomena**.**



2.2.3. Test Data Results:

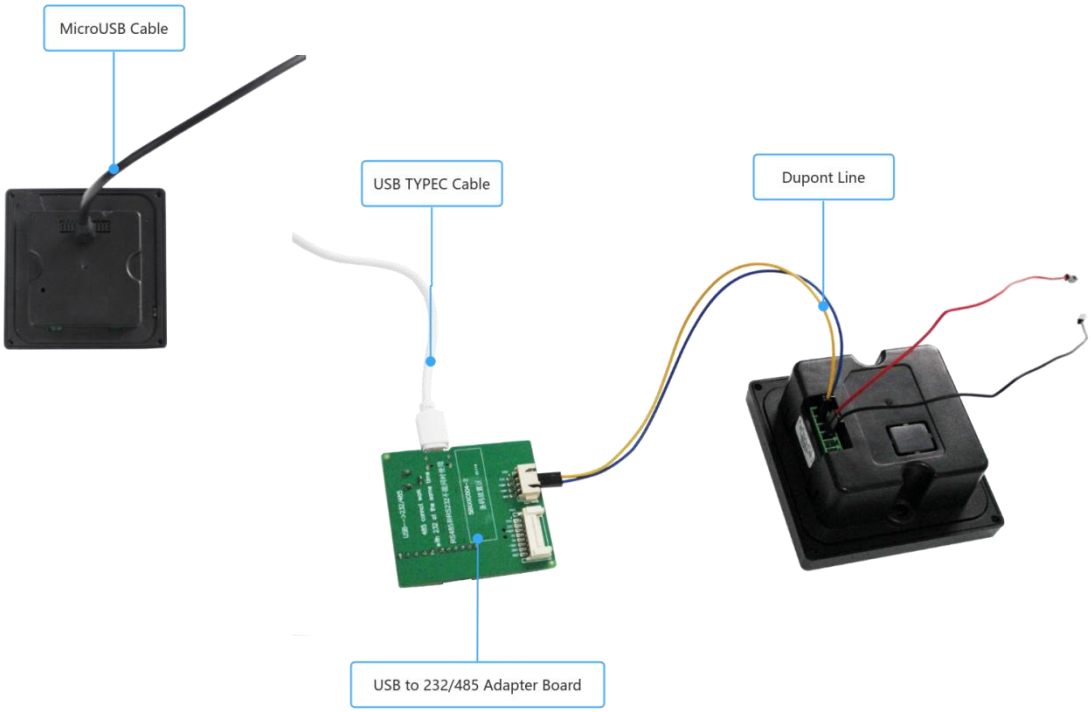
Implementation standards	GB/T 17626.4
Performance criteria	B
Test environment	4.0KV ; 100KHZ ; 120S

3. Product Size



4. Debugging Tools

It is recommended for new users of TDO smart LCMs to purchase official accessories. For more details, please refer to customer service center.



The picture above is only a schematic diagram of the use of the debugging tool, not a real product image.

5. Model Definition

T Y 040 WV P 08 C F

1 2 3 4 5 6 7 8

① : 1 position--TDO abbreviation, fixed。

② : 1 position--U(U series serial port)/P(parallel port)/Y(Y series serial port)/H(HDMI interface type)/S(adapter board)/L

③ : 3 position--size,eg.040->4.0 inch

④ : 2 position--resolution abbreviation

⑤ : 1 position--H (standard series)/C (basic series)/L (MINI board series)/P (with housing series)/M (medical series)/A (AV series)

⑥ : 2 position---serial number

⑦ : 1 position---CT (with capacitive touch panel)/RT (with resistive touch panel)

⑧ : 1 position-----Platform: F-TR660 / G-TR540 / H-TR230M /J -TR240 / K-TR661 / D-TR670 / 0-Android / 1-Linux

Note: There is no key structural process modification or major layout adjustment, only changes in product process or reliability. The company will not initiate changes to the outside world. The specific items are subject to the received items.

6. Packaging and Physical Dimensions

Single product weight					
Net weight (G)	TBD				
Packaging standard and total weight					
Packing box model	Packing box size (length*width*height, unit: mm)	Layers	Quantity (PCS)/layer	Total quantity (pieces)	Total weight (KG)

7. Sale and Service



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8. Disclaimer

This document provides product information about Shanghai Top Display Optoelectronics Technology Co., Ltd. (hereinafter referred to as Shanghai Top Display), which aims to assist customers to speed up product development progress, short development cycles, any routine programs provided in the service process or other channels , technical documents, data manuals, product drawings and other materials and information are for reference only, and customers have the right not to use or to modify and use for their own reference. The company does not provide any guarantee of completeness and reliability. If the customer causes special, incidental or indirect losses for any reason during the use process, the company does not assume any responsibility.