

MODEL : **TY070WVC01RJ**

ISSUED DATE : **2026-02-24**

VERSION : **1.0**

Version Record

Issued Date	Description	Version	Editor	Audit
2026-02-24	Final release	1.0	JJJ	

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1. Hardware Introduction

1.1. Connector Pin Definition

Pin Name	Type	Reset status	Internally configurable pull-down resistors	Default drive capability (mA)	Voltage	Function
VCC-IN	POWER	-	-	-	-	POWER-INPUT，DC4.5-15V
VCC-IN	POWER	-	-	-	-	POWER-INPUT，DC4.5-15V
NC	-	-	-	-	-	FLOAT
TX	-	-	-	-	5V	UART2-TX，Connect user RX
RX	-	-	-	-	5V	UART2-RX，Connect user TX
NC	-	-	-	-	-	FLOAT
GND	POWER	0V	-	-	0V	POWER-GND
GND	POWER	0V	-	-	0V	POWER-GND

1.2. Pinout IO Definitions

Pin Name	Type	Reset status	Internally configurable pull-down resistors	Default drive capability (mA)	Voltage	Function
3V3	POWER	-	-	-	3.3V	
GND	POWER	-	-	-	0V	
I2C0_SCL	-	-	-	-	-	I2C0_SCL
I2C0_SDA	-	-	-	-	-	I2C0_SDA

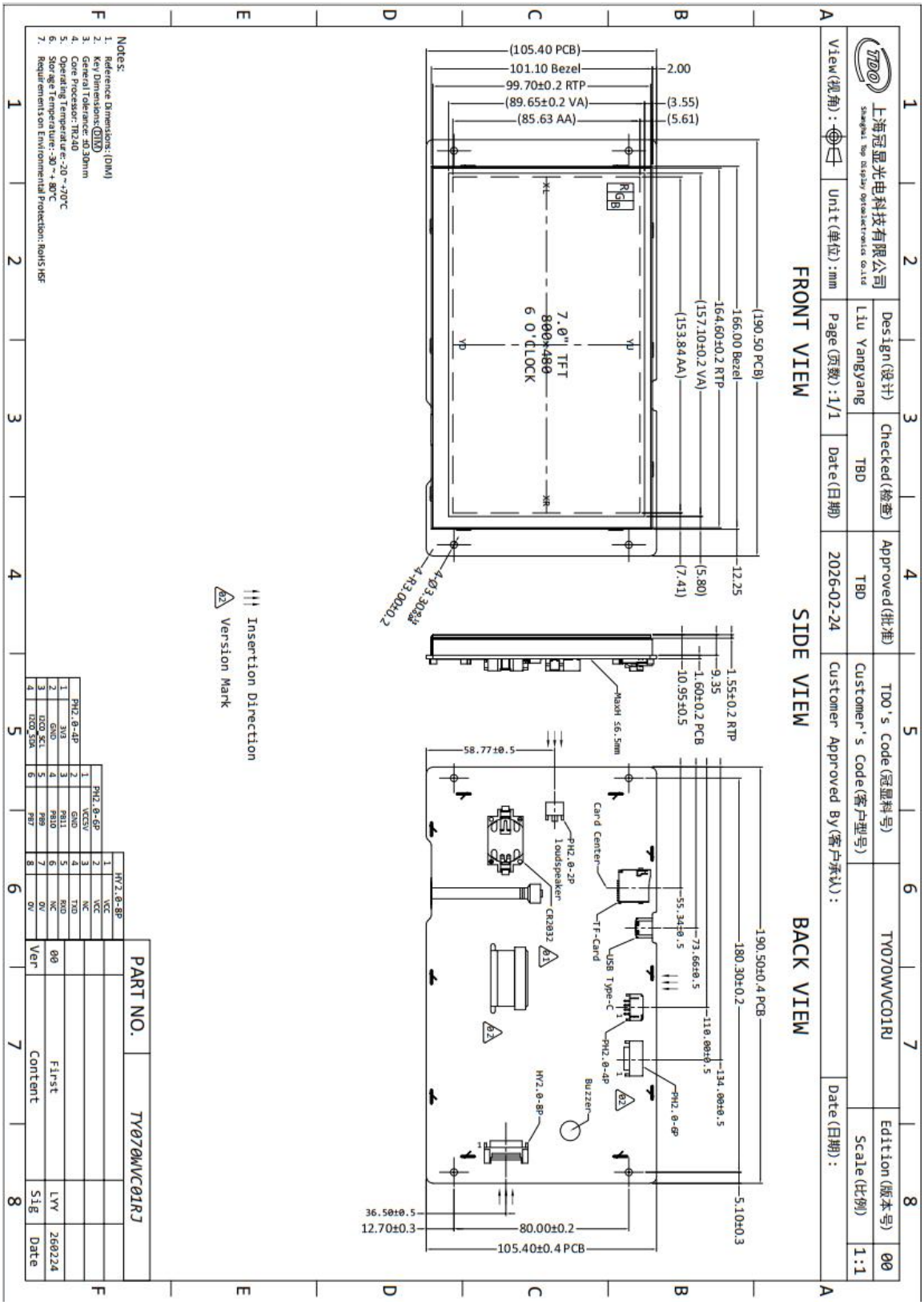
Pin Name	Type	Reset status	Internally configurable pull-down resistors	Default drive capability (mA)	Voltage	Function
VCC5V	POWER	-	-	-	5V	POWER
GND	POWER	-	-	-	0V	POWER
PB11	-	-	-	-	-	
PB10	-	-	-	-	-	
PB9	-	-	-	-	-	
PB7	-	-	-	-	-	

2. Product Specifications

● Product parameter	
Model	TY070WVC01RJ
Product serial	basic series
Core processor	TR240
Size	7.0 inch
Resolution	800RGB×480
Active area(mm)	153.84(W)×85.63(H)
Product size(mm)	190.50(W)×105.40(H)×16.48(T)
Color	16.7M，24 bit RGB
Storage	Customer available 16 M
Pictures format	JPG/PNG
Download pictures	TF Card (Needs to be combined with a debugging tool)
Firmware update	TF Card (Needs to be combined with a debugging tool)
● LCD screen	
Display type	TFT LCD TN
Back light	LED
Brightness(cd/m²)	280
Backlight life(hour)	30000

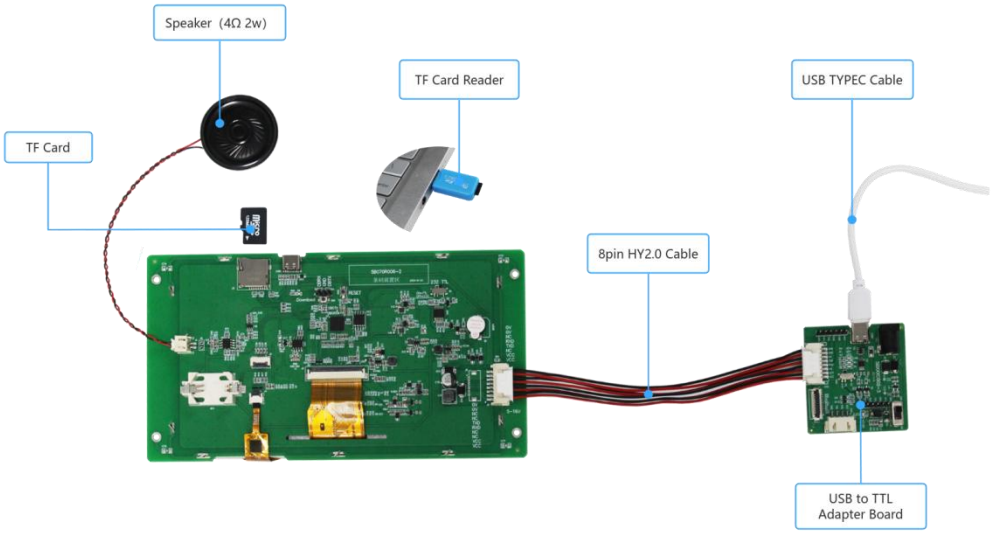
Contrast	500
Perspective(T/B/L/R)	(60/70/70/70)
● Touch panel	
Touch mode	Resistive touch screen
● Environmental electrical parameters	
Voltage	4.5~15V, typical 12V DC
Working temperature	-20℃ ~ 70℃
Storage temperature	-30℃ ~ 80℃
Working humidity	10%~90%RH
Storage humidity	10%~90%RH
● Communication interface parameters	
Communication mode	5V TTL / RS232
Baud	2400~115200, typical value is 115200
Data frame format	8N1
Communication plug-in specification	HY2.0-8P/PH2.0-6P/PH2.0-4P
● Other external equipment	
RTC	Support
TF card	Support
Buzzer	Support
Speaker	Support

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 above diagram shows the use of the debugging tools, not the product diagram.

5. Model Definition

T Y 070 WV C 01 R J

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.070->7.0 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)/NT(no 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.