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

规格书
Pre-specfication

型号 MODEL:	TY133FHM02CD
日期 ISSUED DATE:	2026-2-24
版本 VERSION:	1.0

● 版本记录

日期 Issued Date	描述 Description	版本 Version	编写 Editor	审核 Audit
2026-2-24	初版本 First release	1.0	JJJ	

目录

1. 硬件介绍 Hardware introduction 1

1.1. 产品规格 Product Specifications 1

1.2. 连接器引脚定义 Connector Pinout Definition 5

2. 产品尺寸 Product Size 7

3. 调试工具 Debugging Tools 8

4. 型号定义 Model Definition 9

5. 包装与物理尺寸 Packaging and Physical Dimensions 10

6. 销售与服务 Sale and Service 11

7. 免责声明 Disclaimer 12

1. 硬件介绍 Hardware introduction

1.1. 产品规格 Product Specifications

● 产品参数 Product parameter	
型号 Model	TY133FHM02CD
产品系列 Product serial	医疗级 medical series
核心处理器 Core processor	TR670
尺寸 Size	13.3inch
分辨率 Resolution	1920RGB×1080
屏幕有效显示区(mm) Active area(mm)	293.76(W)×165.24(H)
产品尺寸(mm) Product size(mm)	347.72(W)×219.21(H)×18.3(T)
颜色 Color	24-bit8R8G8B
存储空间 Storage	用户可用 128 M Bytes Customer available 128M Bytes
音频	支持 MP3 和 WAV 格式

Audio	MP3 and WAV format audio support
视频 Video	H.264 格式视频 Video format is H.264
图片格式 Pictures format	JPG/PNG
固件升级方式 Firmware update	TYPE-C
UI 下载方式 Download pictures	TYPE-C
蜂鸣器 Buzzer	支持 Support
RTC	支持 Support
USB	支持 Support
音频 Audio	支持 Support
WIFI	预留 Reserve
● **屏幕参数 LCD screen**	
显示器类型 Display type	TFT LCD IPS

背光 Back light	LED
亮度（cd/㎡） Brightness(cd/m²)	500
对比度 Contrast	800
背光寿命（小时） Backlight life(hour)	30000
视角(T/B/L/R) Perspective(T/B/L/R)	(85/85/85/85)
● **触摸盖板 Touch panel**	
触摸类型 Touch mode	电容触摸屏 Capacitive touch screen
● **环境电气参数 Environmental electrical parameters**	
输入电压 Voltage	12~36V
工作温度 Working temperature	0℃～50℃
存储温度 Storage temperature	-20℃～60℃
工作湿度 Working humidity	10%~90%

存储湿度 Storage humidity	10%~90%

1.2. 连接器引脚定义 Connector Pinout Definition

J4:

引脚名称 Pin Name	类型 Type	复位状态 Reset status	内部可配置上下拉电阻 Internally configurable pull-down resistors	默认驱动能力(mA) Default drive capability (mA)	电压 Voltage	功能 Function
12~36V	POWER	-	-	-	12~36V	POWER-IN
TX-6	-	-	-	-	-	UART6-TX，接用户 RX
RX-6	-	-	-	-	-	UART6-RX，接用户 TX
GND	POWER	-	-	-	0V	POWER-GND

J8:

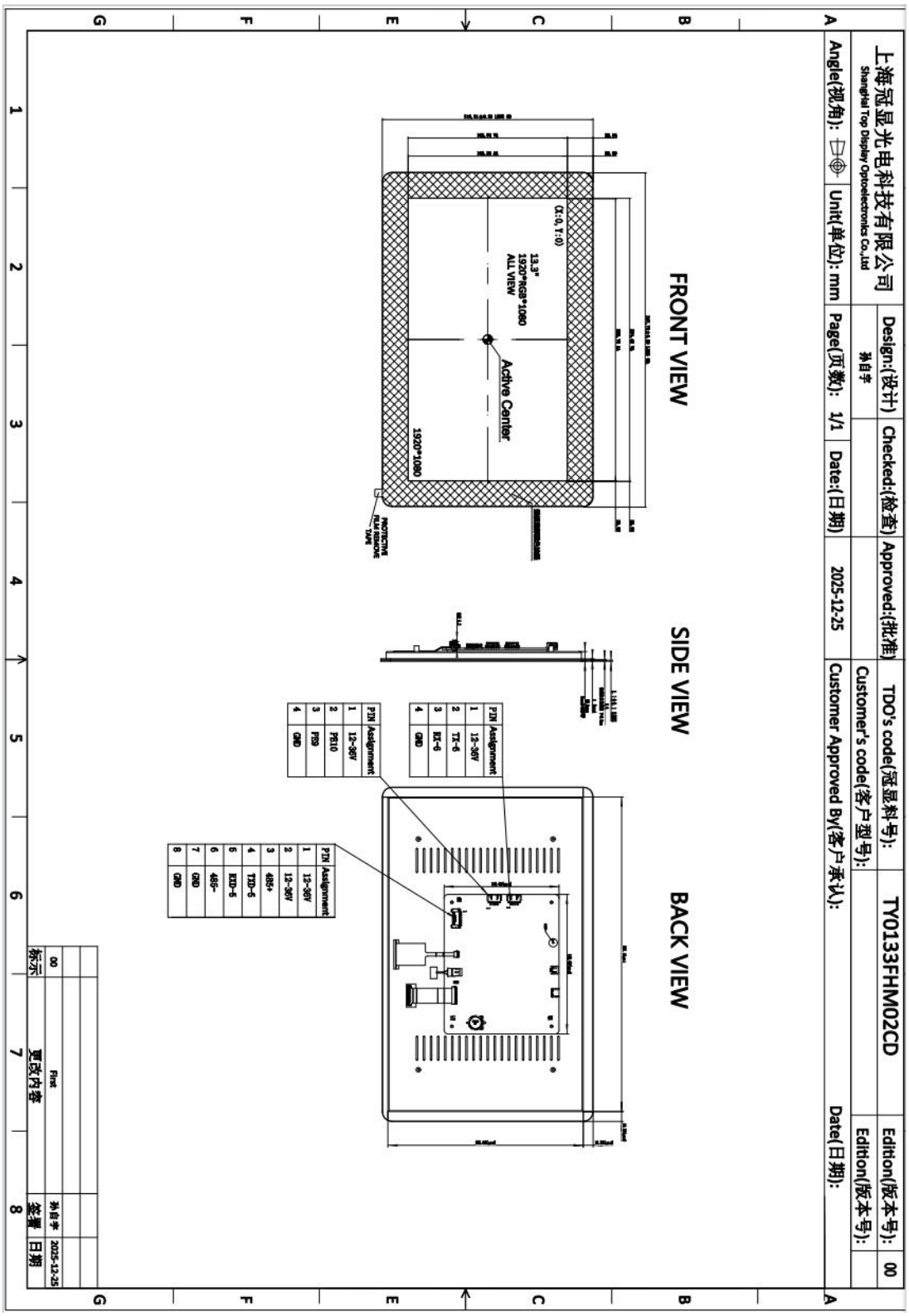
引脚名称 Pin Name	类型 Type	复位状态 Reset status	内部可配置上下拉电阻 Internally configurable pull-down resistors	默认驱动能力(mA) Default drive capability (mA)	电压 Voltage	功能 Function
12~36V	POWER	-	-	-	12~36V	POWER-IN
12~36V	POWER	-	-	-	12~36V	POWER-IN
485+	-	-	-	-	-	485+/485_A
TX-5	-	-	-	-	-	UART5-TX，接用户 RX
RX-5	-	-	-	-	-	UART5-RX，接用户 TX
485-	-	-	-	-	-	485-/485_A
GND	POWER	-	-	-	0V	POWER-GND
GND	POWER	-	-	-	0V	POWER-GND

J9:

引脚名称 Pin Name	类型 Type	复位状态 Reset status	内部可配置上下拉电阻 Internally configurable pull-down resistors	默认驱动能力(mA) Default drive capability (mA)	电压 Voltage	功能 Function
12~36V	POWER	-	-	-	12~36V	POWER-IN
PE10	I/O	-	-	-	-	GPIO-PE10
PE9	I/O	-	-	-	-	GPIO-PE9
GND	POWER	-	-	-	0V	POWER-GND

● 通讯接口参数 Communication interface parameters	
通讯方式 Communication mode	TTL & 232 & 485，默认 232 Default 232 communication
通讯波特率 Baud	2400~115200，典型值 115200 2400~115200，typical value is 115200
数据帧格式 Data frame format	8N1
通讯插件规格 Communication plug-in specification	HY2.0_8pin

2. 产品尺寸 Product Size

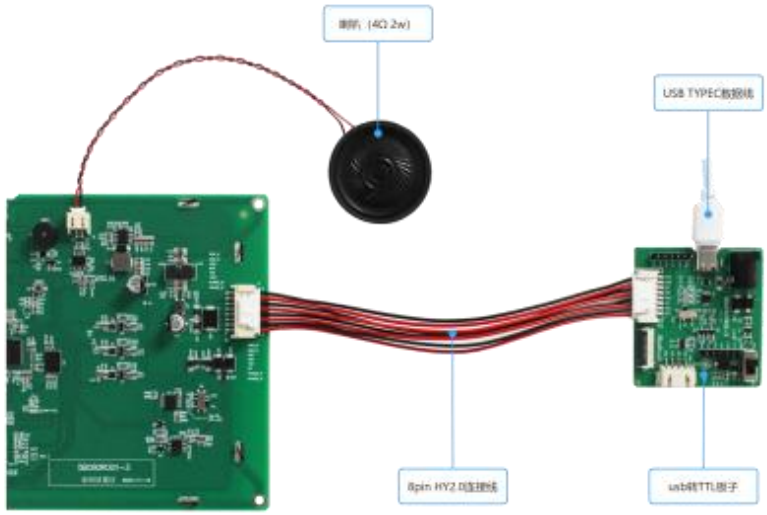


(Product drawings)

3. 调试工具 Debugging Tools

建议首次使用 TDO 智能显示串口屏的用户购买标准配件。详细信息可联系客服人员。

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



上图为调试工具的使用示意图，非产品图。本产品实物图请参考文档 1.1

(The above diagram shows the use of the debugging tools, not the product diagram. Please refer to document 1.1 for the physical drawing of this product.)

4. 型号定义 Model Definition

TY 133 FH M 02 C D

12 3 4 5 6 7 8

① ： 1 码--TDO 缩写，固定。

1 position--TDO abbreviation, fixed。

② ： 1 码---U(U 系列串口）/P(并口)/Y(Y 系列串口)/H(HDMI 接口类)/S(转接板)

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

③ ： 3 码--尺寸,eg.0xx->xxx 寸

3 position--size,eg.0xx->xxx inch

④ ： 2 码--分辨率缩写

2 position--resolution abbreviation

⑤ ： 1 码--C（消费级）/ H（商业级）/ M（医疗级）/ L（MINI 板）/ P（带外壳）

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

⑥ ： 2 码--流水号

2 position---serial number

⑦ ： 1 码--C(带电容触摸面板)/R(带电阻触摸面板)/N(不带触摸面板)

1 position---C (with capacitance touch panel)/R (with resistive touch panel)/N(with NO touch panel)

⑧ ： 1 码--平台号，F-TR660/ G-TR540/H-TR230M / J-TR240 / K-TR661/ D-TR670 / 0-安卓/ 1-Linux

1 position--platform number， D-TR670/F-TR660/ G-TR540/H-TR230M / J-TR240 / K-TR661 / 0-Android / 1-Linux

注意：未涉及关键结构工艺修改或布局大调整，仅产品工艺或可靠性方面的更迭，公司不对外发起变更，具体以收到的实物为准

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.

5. 包装与物理尺寸 Packaging and Physical Dimensions

单品重量 **Single product weight**					
净重量（G）Net weight (G)	TBD				
包装标准和总重量 **Packaging standard and total weight**					
包装箱型号 Packing box model	包装箱尺寸（长*宽*高,单位：mm）Packing box size (length*width*height, unit: mm)	层数 Layers	数量（PCS）/层 Quantity (PCS)/layer	总数量（片）Total quantity (pieces)	总重量（KG）Total weight (KG)

6. 销售与服务 Sale and Service

电话:021-64297098
传真:021-64297089
Email:sales@shtdo.com
官网:www.shtdo.com
地址:上海市闵行区新骏环路88号13A栋4楼
官方旗舰店:shop163014679.taobao.com



TEL:021-6429098

FAX:021-6429089

EMAIL:sales@shtdo.com

WEB:www.shtdo.com

ADDR:Shanghai, Minhang district, Xinjunhuan Road 88, Building13A, 4th floor

Online shop:http://shtdo.en.alibaba.com/

7. 免责声明 Disclaimer

本文档提供有关于上海冠显光电科技有限公司（以下简称 上海冠显）的产品信息，旨在协助客户加快产品研发进度所短开发周期，在服务过程中或者其他渠道所提供的任何例程程序、技术文档、数据手册、产品图纸等资料和信息都仅供参考使用，客户请自行参考修改使用。本司不提供任何可靠性保证，如若客户在使用过程中因任何原因造成特别的、偶然的或者间接的损失，请自行承担连带责任。

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.