



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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WEB: <https://www.winstar.com.tw> E-mail: sales@winstar.com.tw

SPECIFICATION

CUSTOMER : _____

MODULE NO.: **WWFT2232D-00**

APPROVED BY: (FOR CUSTOMER USE ONLY)	PCB VERSION: _____ DATA: _____
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SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
			Hedy Lai
ISSUED DATE: 2025/02/08			

TFT Display Inspection Specification: <https://www.winstar.com.tw/technology/download.html>

Precaution in use of TFT module: <https://www.winstar.com.tw/technology/download/declaration.html>



RECORDS OF REVISION			DOC. FIRST ISSUE
VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2025/02/08		First issue

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1.Module Classification Information

W	W	FT2232D	-	00	#
①		②		③	④

①	Brand : WINSTAR DISPLAY CORPORATION				
②	Controller: FT2232D				
③	Version: 00				
④	Special Code	#:Fit in with ROHS directive regulations			

2.Summary

The WWFT2232D-00# is an accessory for Winstar Smart Display RS485 series Demo Set. It allows users to experience the exclusively developed GUI Builder. By operating the GUI Builder software on your computer, you can design a user interface (UI) without writing any programs. Then, you can use the dongle to transfer the UI to the Smart Display for display, reducing development costs and speeding up time-to-market expectations. This module is suitable for fast and easy integration of a human-machine interface (HMI) into various applications, including passenger vehicles, industrial automation, mechanical control, elevators, escalators, and electronic equipment for aviation and navigation. The module is also compliant with RoHS regulations

1. Self-powered via a USB Micro-B connector
2. Bridge USB to RS485 using 2-wire locking connector
3. Demonstration video link: <https://www.winstar.com.tw/video/play/142.html>

3.General Specifications

Item	Dimension	Unit
Module dimension	30.0 × 60.0 × 15.1 (Max)	mm
Interface	Micro-B USB	

4. Electrical Characteristics

4.1 Supply Conditions

Parameter	Symbol	Values			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	VDD	4.5	5	5.25	V	USB Power
Supply Current	IDD	—	0.11	—	mA	Note

Note : This typical value is at $T_A = 25^{\circ}\text{C}$ and $V_{DD} = 5\text{V}$.

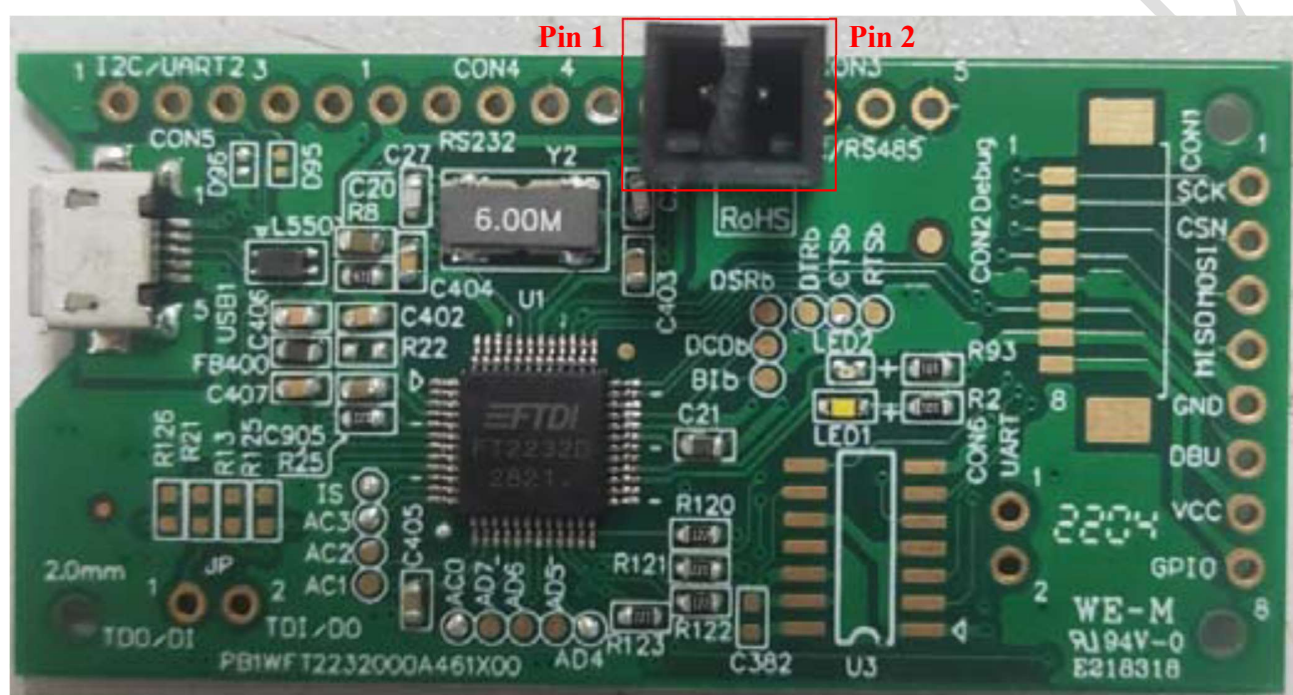
4.2 RS485 Transmit Data Input Conditions

Parameter	Symbol	Values			Unit	Remark
		Min.	Typ.	Max.		
Input Low Voltage	V_{IL}	—	—	0.8	V	
Input High Voltage	V_{IH}	2	—	—	V	

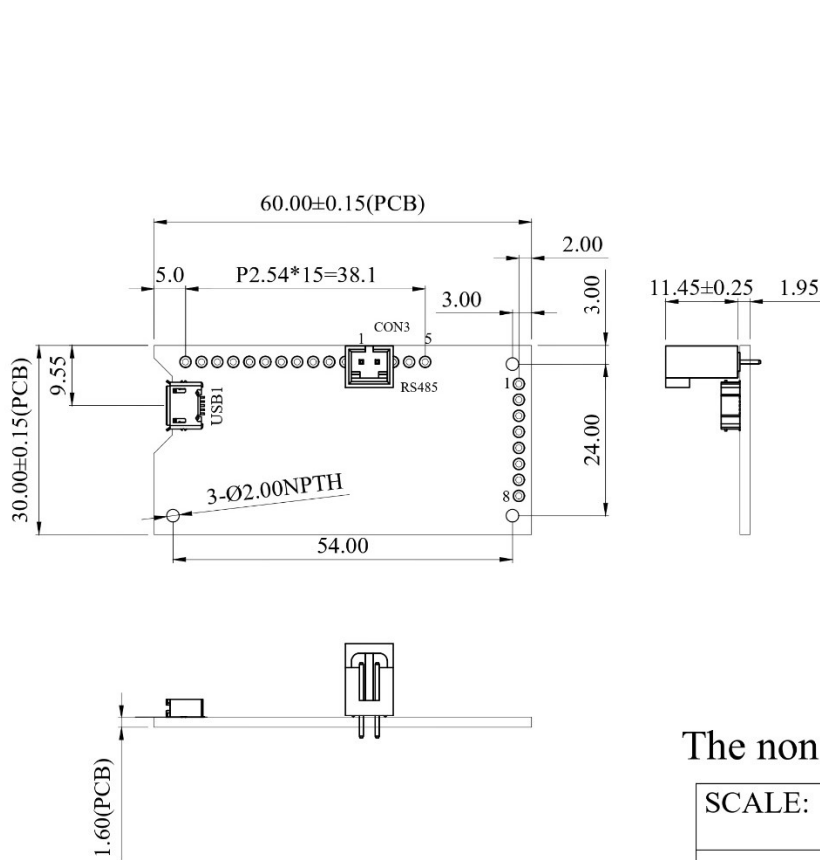
5.Interface

RS485			
Pin	Symbol	I/O	Function
1	RS485+	I/O	RS485 DATA+
2	RS485-	I/O	RS485 DATA-

Note : This is a locking connector that can be pulled out smoothly by simply pressing it.



6. Contour Drawing



CON3 RS485

PIN	SYMBOL
1	RS485+
2	RS485-

PIN
1
2
3
4
5

The non-specified tolerance of dimension

SCALE: 1/1	UNIT: mm	華凌光電(常 WINSTAR D
REV: A	PAGE: 1/1	
APPROVED	戚学刚 2022/03/24	MODEL WWFT223
CHECKED	陈栋梁 2022/03/24	TITLE TFT MC
DRAWN	黄慧 2022/03/24	DWG NO. T-10