



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司

SPECIFICATION

CUSTOMER : _____

MODULE NO.: WWTFTDEMO35L-03# _____

<p style="text-align: center; font-weight: bold; font-size: 1.2em;">APPROVED BY:</p> <p>(FOR CUSTOMER USE ONLY)</p>	<p style="text-align: center;">PCB VERSION: DATA:</p>
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SALES BY	APPROVED BY	CHECKED BY	PREPARED BY

VERSION	DATE	REVISED PAGE NO.	SUMMARY



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華凌光電股份有限公司

MODLE NO :

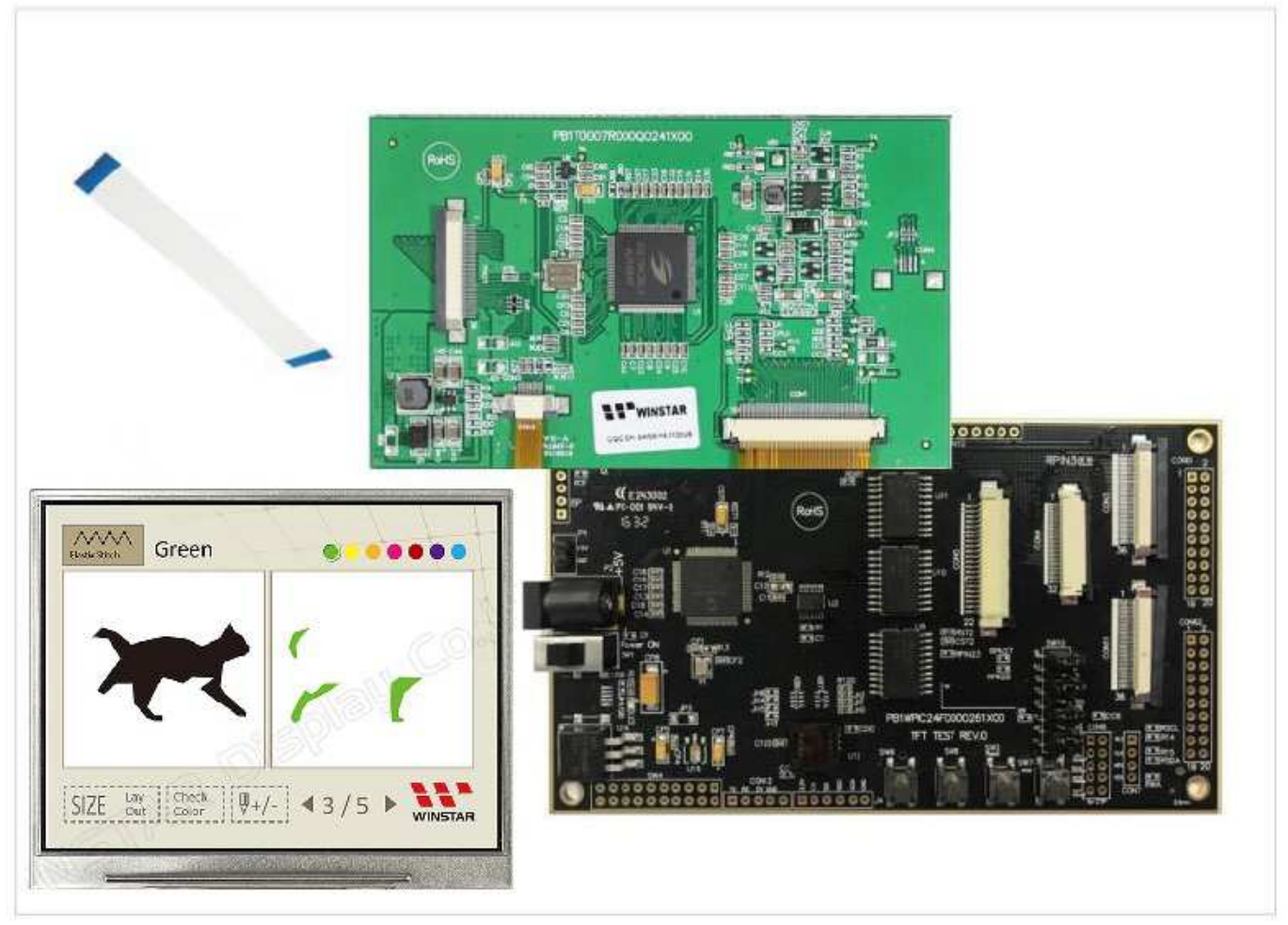
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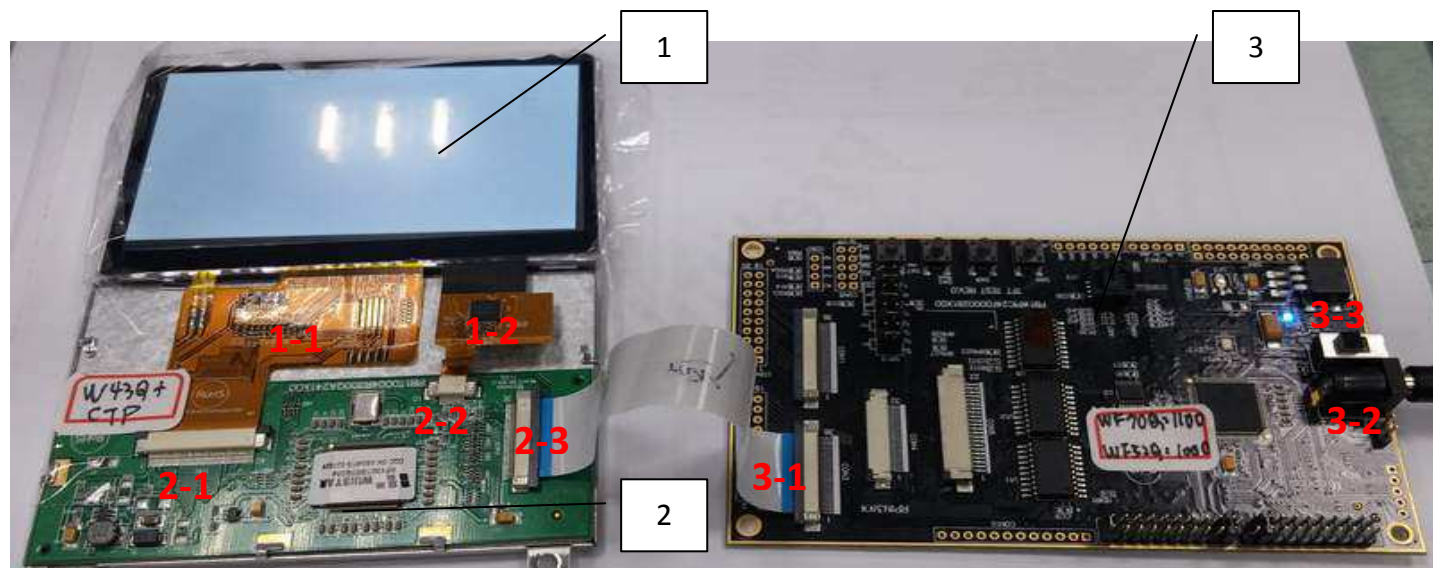
1. BOM List

- CPU PIC24 board (WWPIC24F-A-00#)
- Graphic Controller SSD1963 board
- FFC cable 36 pins



2. Winstar TFT DEMO Connection method

WF35Q model for **WWPIC24F-00#** example description



Position	Description
1	TFT Display
1-1	TFT LCM FPC Cable
1-2	CTP FPC Cable
2	MCU Transfer Board
2-1	Connect TFT LCM FPC Connector
2-2	Connect CTP FPC Connector
2-3	MCU Data transmission bus
3	PIC24 Module
3-1	PIC24 Data transmission bus
3-2	Power jack
3-3	ON/OFF

Connection process sequence:

The WF35Q series is mainly composed of three main components: TFT display/MCU switch board/PIC24 measuring machine

1. The FPC (TFT LCM and CTP) in the TFT display is connected to the MCU adapter board Connector (1-1=>2-1 ,1-2=>2-2)
2. Connect the MCU adapter board with the PIC24 data transmission bus (2-3=>3-1)
3. PIC24 test machine related SW JUMP is set by WinStar before leaving the factory
4. Connect the Power Jack to the transformer on the PIC24 test machine (3-2)

Turn on the PIC24 measuring machine switch (3-3) to confirm whether the function is output normally

Note:

1-1 The functional status of the related wiring will be tested before shipment. If the customer disassembles and assembles by himself, please pay attention to the related installation sequence and whether the definition is correct

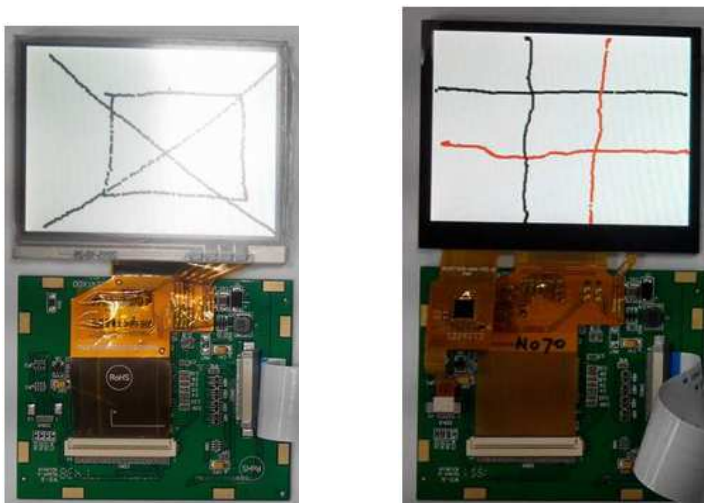
1-2 Before self-installation, you need to mark and take photos for subsequent restoration (if self-installation causes damage, the risk

(Customer's own responsibility)

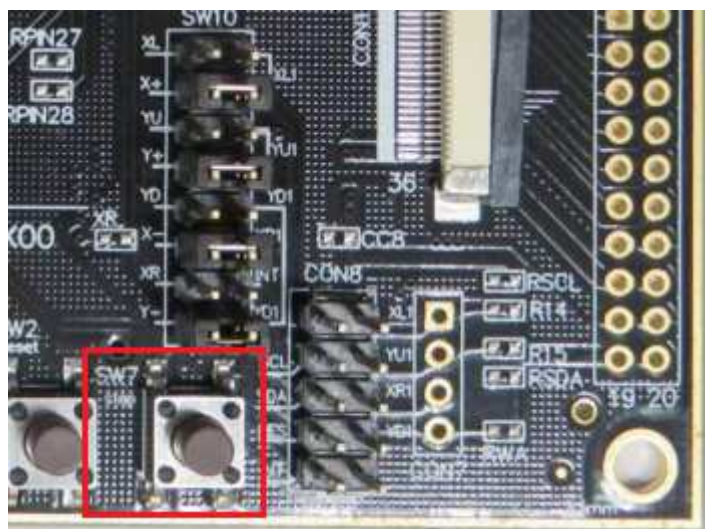
三、 DEMO screen

1. There are mainly three DEMO screens: RTP (resistive type, left picture), CTP (capacitive type, right picture), and no TP.

DEMO RTP and CTP will have a white background screen, allowing customers to touch the line and switch to the next screen function



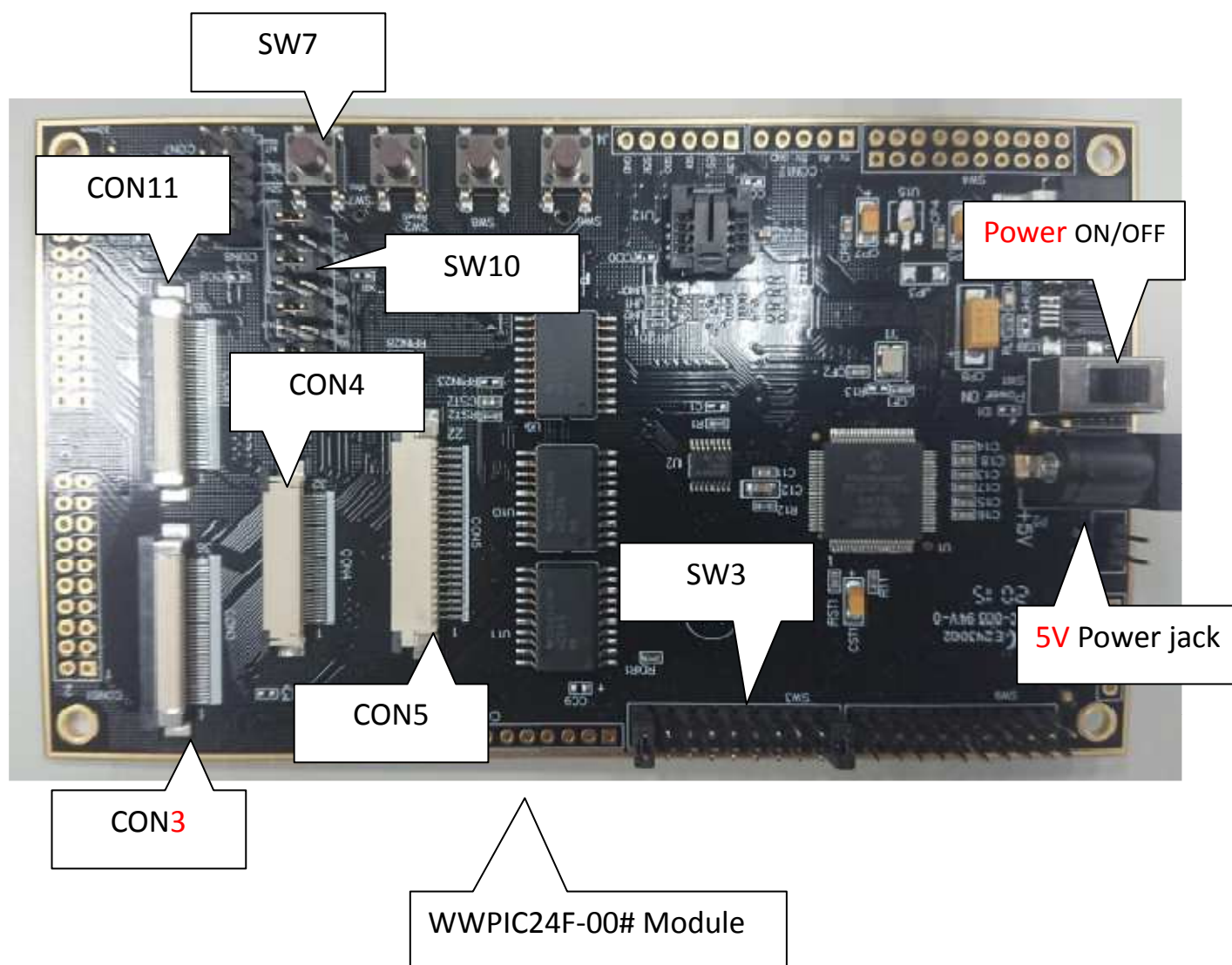
2. Directly enter the color screen without TP, press SW7 to switch to the next screen function



3. TFT DEMO BOARD Feature

→ WWPIC24F-00# Description

- ◆ PIC24F-00# Mainly used in data output transmission, enabling TFT displays to output data sources
- ◆ PIC24F-00# Can be defined according to Hualing TFT product model (16bit or 8bit)
- ◆ PIC24F-00# Can be defined according to the Touch Function product model (RTP or CTP)
- ◆ PIC24F-00#TFTScreen display continuity or single screen switching



4.Interface Description

1. Component explain

Parts Location	Function explanation	Remarks
SW3	TFT model selection	
SW7	Display screen switching	
SW10	Touch function selection(RTP or CTP)	
CON3/CON11	36 pin for 16 bit	
CON3/CON11	32 pin for 16 bit	
CON4	32 pin for 16 bit	
CON5	22 pin for 8 bit	
Power ON/OFF	Power Switch button (ON/OFF)	
5V Power jack	Power input	
Other	With SPI interface, or pull-out RTP/CTP	

※ Explanation of connector and Switch

1. Plug adaptor to the AC100~240V socket and power will transfer to +5V.
2. SW3 Mainly TFT module model selection, adjust Jump according to Winstar model definition
3. SW7 is for single image displayed. Single image changes when pushing SW7 each time.
4. SW10 Can be adjusted according to TFT and touch type
5. CON3/CON11 for TFT FPC 36pin Design (WF35Q~WF102Q) and output bit is 16bit
6. CON3/CON11 for TFT FPC 32pin Design (WF35L~WF57B/D/E) and output bit is 16bit
7. CON4 for TFT FPC 32pin Design (WF57F, WF70H) and output bit is 16bit
8. CON5 for TFT FPC 22pinDesign (WF35L~WF102A) and output bit is 8bit
9. Power ON/OFF Input switch
10. 5V Power jack Input power
11. Other : Other SPI, or pull-out RTP/CTP will be completed by jumper

2. Electrical Characteristics

2.1 WWPIC24F-00# Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Supply Voltage For PIC24	VDD	—	—	5	—	V	—
Supply Current For PIC24	IDD	—	—	1A 2A	—	mA	Note1

Note 1 : According to different TFT models, the 5V transformer will have a choice of 1A or 2A.