



WINSTAR Display Co.,Ltd.  
華凌光電股份有限公司



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### SPECIFICATION

**MODULE NO.: WF43GTIAEDNGD#**

### General Specifications

| Item                           | Dimension                               | Unit |
|--------------------------------|---|------|
| Size                           | 4.3                                     | inch |
| Dot Matrix                     | 480 x RGB x 272(TFT)                    | dots |
| Module dimension               | 105.5(W) x 67.2(H) x4.6(D)              | mm   |
| Active area                    | 95.04 x 53.86                           | mm   |
| Dot pitch                      | 0.066 x 0.198                           | mm   |
| LCD type                       | TFT, Normally White, Transmissive       |      |
| View Direction                 | 12 o'clock                              |      |
| Gray Scale Inversion Direction | 6 o'clock                               |      |
| TFT Driver IC                  | ILI6480B                                |      |
| TFT Interface                  | 24-bit RGB                              |      |
| Aspect Ratio                   | 16:9                                    |      |
| Backlight Type                 | LED, Normally White                     |      |
| PCAP FW Version                | 0x07.0x00.0x00.0x00.0x01.0x0C.0x11.0x43 |      |
| PCAP IC                        | ILI2130 or equivalent                   |      |
| PCAP Interface                 | I2C                                     |      |
| PCAP Resolution                | 16384*16384                             |      |
| Touch Panel                    | With PCAP                               |      |
| Surface                        | Glare                                   |      |

# Absolute Maximum Ratings

| Item                  | Symbol | Min | Typ | Max | Unit |
|-----------------------|--------|-----|-----|-----|------|
| Operating Temperature | TOP    | -20 | —   | +70 | °C   |
| Storage Temperature   | TST    | -30 | —   | +80 | °C   |

# Electrical Characteristics

## 1. Operating conditions:

| Item                   | Symbol | Condition | Min | Typ | Max | Unit |
|------------------------|--------|-----------|-----|-----|-----|------|
| Supply Voltage For LCM | VCC    | --        | 3.0 | 3.3 | 3.5 | V    |
| Supply Current For LCM | Icc    | --        | --  | 17  | 25  | mA   |
| Supply CTP             | VDDT   | --        | 3.0 | 3.3 | 3.6 | V    |
|                        | IcTP   | --        | —   | 52  | 78  | mA   |

## 2. LED driving conditions

| Parameter         | Symbol | Min. | Typ.   | Max. | Unit |
|-------------------|--------|------|--------|------|------|
| LED current       |        | -    | 20     | -    | mA   |
| Power Consumption |        |      | 640    | 680  | mW   |
| LED voltage       | VBL+   | 30   | 32     | 34   | V    |
| LED Life Time     |        | -    | 50,000 | -    | Hr   |

# Interface

## 1. LCM PIN Definition

| Pin | Symbol | Function                        |
|-----|--------|---------------------------------|
| 1   | VLED-  | Power for LED backlight cathode |
| 2   | VLED+  | Power for LED backlight anode   |
| 3   | GND    | Power ground                    |
| 4   | VCC    | Power voltage                   |
| 5   | R0     | Red data (LSB)                  |
| 6   | R1     | Red data                        |
| 7   | R2     | Red data                        |
| 8   | R3     | Red data                        |
| 9   | R4     | Red data                        |
| 10  | R5     | Red data                        |
| 11  | R6     | Red data                        |
| 12  | R7     | Red data (MSB)                  |
| 13  | G0     | Green data (LSB)                |
| 14  | G1     | Green data                      |
| 15  | G2     | Green data                      |
| 16  | G3     | Green data                      |
| 17  | G4     | Green data                      |
| 18  | G5     | Green data                      |
| 19  | G6     | Green data                      |
| 20  | G7     | Green data (MSB)                |
| 21  | B0     | Blue data (LSB)                 |
| 22  | B1     | Blue data                       |
| 23  | B2     | Blue data                       |
| 24  | B3     | Blue data                       |
| 25  | B4     | Blue data                       |
| 26  | B5     | Blue data                       |
| 27  | B6     | Blue data                       |
| 28  | B7     | Blue data (MSB)                 |
| 29  | GND    | Power ground                    |
| 30  | CLK    | Pixel clock                     |

|    |      |                |
|----|------|----------------|
| 31 | DISP | Display on/off |
| 32 | NC   | No connection  |
| 33 | NC   | No connection  |
| 34 | DE   | Data Enable    |
| 35 | NC   | No connection  |
| 36 | GND  | Power ground   |
| 37 | NC   | No connection  |
| 38 | NC   | No connection  |
| 39 | NC   | No connection  |
| 40 | NC   | No connection  |

## 2. PCAP PIN Definition

| Pin | Symbol | Function                       |
|-----|--------|--------------------------------|
| 1   | VSS    | Ground for analog circuit      |
| 2   | VDDT   | Power Supply : +3.3V           |
| 3   | SCL    | I2C clock input                |
| 4   | NC     | No connect                     |
| 5   | SDA    | I2C data input and output      |
| 6   | NC     | No connect                     |
| 7   | /RST   | External Reset, Low is active  |
| 8   | NC     | No connect                     |
| 9   | /INT   | External interrupt to the host |
| 10  | VSS    | Ground for analog circuit      |

# Contour Drawing

