

# TFT DISPLAY SPECIFICATION



**WINSTAR Display Co.,Ltd.**  
**華凌光電股份有限公司**



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**MODULE NO.: WF104GSWAMLNB0**

## General Specifications

| Item             | Dimension                          | Unit |
|------------------|------------------------------------|------|
| Size             | 10.4                               | inch |
| Dot Matrix       | 1024 x RGB x 768 (TFT)             | dots |
| Module dimension | 240.6 x 190.8 x 15.65              | mm   |
| Active area      | 210.432 x 157.824                  | mm   |
| Pixel pitch      | 0.2055 X 0.2055                    | mm   |
| LCD type         | TFT, Normally Black, Transmissive  |      |
| Viewing Angle    | 80/80/80/80 min                    |      |
| Aspect Ratio     | 4:3                                |      |
| TFT Interface    | LVDS                               |      |
| Backlight Type   | LED ,Normally White                |      |
| CTP IC           | ILI2511 or Equivalent              |      |
| CTP Interface    | USB                                |      |
| CTP FW Version   | 6.0.0.0.0.0.3                      |      |
| CTP Resolution   | 16384*16384                        |      |
| Touch Panel      | With Capacitive Touch Screen (CTP) |      |
| Surface          | Glare                              |      |

## Absolute Maximum Ratings

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

## Electrical Characteristics

### Operating conditions

| Item                     | Symbol              | Standard Value      |     |                     | Unit |
|--------------------------|---------------------|---------------------|-----|---------------------|------|
|                          |                     | Min                 | Typ | Max                 |      |
| Power voltage            | V <sub>DD</sub>     | 3.0                 | 3.3 | 3.6                 | V    |
| Supply CTP               | USB_VDD 5V          | 4.4                 | 5.0 | 5.5                 | V    |
|                          | I <sub>VDD 5V</sub> | —                   | 95  | 145                 | mA   |
| Input logic high voltage | V <sub>IH</sub>     | 0.7 V <sub>DD</sub> | -   | V <sub>DD</sub>     | V    |
| Input logic low voltage  | V <sub>IL</sub>     | 0                   | -   | 0.3 V <sub>DD</sub> | V    |
| Current for Power        | I <sub>VDD</sub>    | -                   | 385 | 424                 | mA   |

# Interface

## LCM PIN Definition (CON1)

| Pin | Symbol | Function   |
|-----|--------|--|
| 1-2 | VDD    | Power supply: + 3.3V                                 |
| 3-4 | GND    | Ground   |
| 5   | Link0- | 0- LVDS differential data input                      |
| 6   | Link0+ | 0+ LVDS differential data input                      |
| 7   | GND    | Ground   |
| 8   | Link1- | 1- LVDS differential data input                      |
| 9   | Link1+ | 1+ LVDS differential data input                      |
| 10  | GND    | Ground   |
| 11  | Link2- | 2- LVDS differential data input                      |
| 12  | Link2+ | 2+ LVDS differential data input                      |
| 13  | GND    | Ground   |
| 14  | CLKIN- | - LVDS differential clock input                      |
| 15  | CLKIN+ | + LVDS differential clock input                      |
| 16  | GND    | Ground   |
| 17  | Link3- | 3- LVDS differential data input                      |
| 18  | Link3+ | 3+ LVDS differential data input                      |
| 19  | MODE   | Bit 6:High(6 Bit);Low(8 Bit)                         |
| 20  | SC     | Scan direction selector (Low: Normal ;High: Reverse) |

# Contour Drawing

