

# TFT DISPLAY SPECIFICATION



**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

**MODULE NO.: WF104GTWAMLNN0**

### General Specifications

| Item             | Dimension                         | Unit |
|------------------|-----------------------------------|------|
| Size             | 10.4                              | inch |
| Dot Matrix       | 1024 x RGB x 768 (TFT)            | dots |
| Module dimension | 230 x 180.2 x 12.4                | 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               |      |
| Touch Panel      | Without Touch Panel               |      |
| Surface          | Anti-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            | $V_{DD}$  | 3.0            | 3.3 | 3.6          | V    |
| Input logic high voltage | $V_{IH}$  | $0.7 V_{DD}$   | -   | $V_{DD}$     | V    |
| Input logic low voltage  | $V_{IL}$  | 0              | -   | $0.3 V_{DD}$ | V    |
| Current for Power        | $I_{VDD}$ |                | 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

