



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODEL NO. : WLOF0007000A2TFAAEA00

Summary

WLOF0007000A2TFAAEA00 is built in TFT 7.0" TN display and the features are described as below:

7.0 Inch Smart Display Feature

1. DC 5V working voltage.
2. Built in 16MB flash memory.
3. Supports RTP touch screen.
4. UART Interface with customized UART protocol, default baud rate at 19200 bit/Sec.
5. Build in SD card slot.
6. USBC power supply.

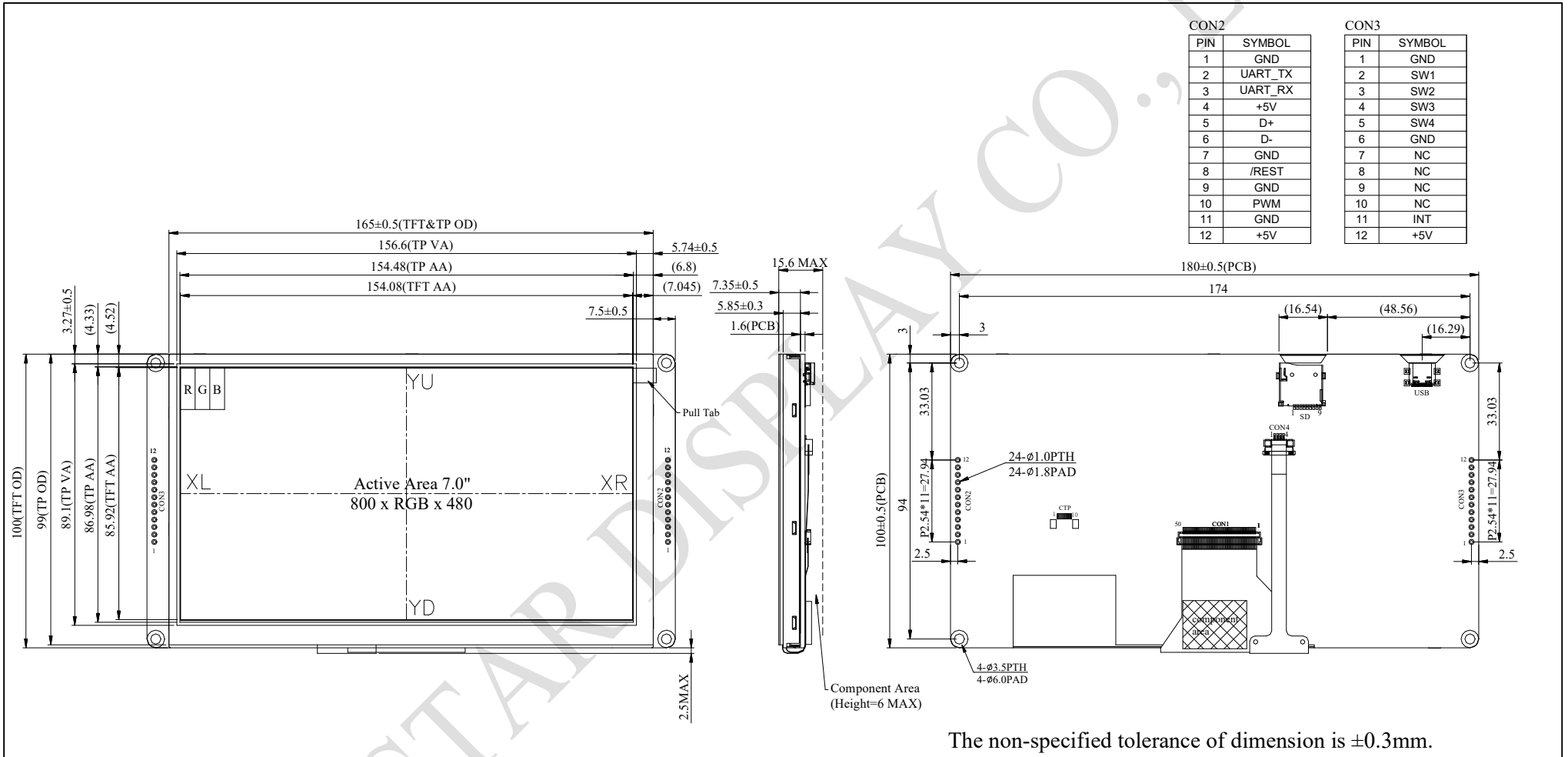
WLOF0007000A2TFAAEA00 is defined as a slave device, which is controlled by master device via customized command to render display content on the display screen and return touch event position.

Product information

General information

| Item | Standard Value | Unit |
|-------------------------|-----------------------------------|-------------------|
| Operating voltage | 5 | Vdc |
| Communication Interface | UART /19200 | N/A |
| MCU | IT9866 /360MHz | N/A |
| Flash Memory | 16 | MB |
| SDRAM Frequency | 64MB/ 360MHz | |
| LCD display size | 7.0 | inch |
| Dot Matrix | 800 × RGB × 480 | dots |
| Module dimension | 180(W) ×100(H) ×15.6(D) | mm |
| Active area | 154.08 × 85.92 | mm |
| Pixel pitch | 0.1926(W) × 0.179(H) | mm |
| Brightness | 200min, 250typ | cd/m ² |
| LCD type | TFT, Normally White, Transmissive | |
| View Direction | 12 o'clock | |
| Aspect Ratio | 16:9 | |
| Touch Panel | Resistive Touch Panel | |
| Surface | Glare | |

Contour Drawing



Absolute Maximum Ratings

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

Electrical Characteristics

| Item | Symbol | Min | Typ | Max | Unit |
|----------------|--------|-----|-----|-----|------|
| Supply Voltage | VCC | | 5 | | V |
| Supply current | ICC | - | 455 | - | mA |

BOM

| Item | Description |
|------|----------------------|
| LCM | WF70A2TIAGDNT0# |
| PCBA | SV10007R00A2B00N0101 |

Interface

CON2 definition:

| Pin | Symbol | Function | Remark |
|-----|---------|------------------------|--------|
| 1 | GND | Power Ground | |
| 2 | UART_TX | UART TX | |
| 3 | UART_RX | UART RX | |
| 4 | +5V | Power supply 5V | |
| 5 | D+ | USB Data+ | |
| 6 | D- | USB Data- | |
| 7 | GND | Power Ground | |
| 8 | /REST | Reset (active Low) | |
| 9 | GND | Power Ground | |
| 10 | PWM | Pulse width modulation | |
| 11 | GND | Power Ground | |
| 12 | +5V | Power supply : 5V | |

CON3 definition:

| Pin | Symbol | Function | Remark |
|-----|--------|---|--------|
| 1 | GND | Power Ground | |
| 2 | SW1 | Switch (active low) | |
| 3 | SW2 | Switch (active low) | |
| 4 | SW3 | Switch (active low) | |
| 5 | SW4 | Switch (active low) | |
| 6 | GND | Power Ground | |
| 7 | NC | Reserved | |
| 8 | NC | Reserved | |
| 9 | NC | Reserved | |
| 10 | NC | Reserved | |
| 11 | INT | Interrupt output for CTP or external switch | |
| 12 | +5V | Power supply : 5V | |