

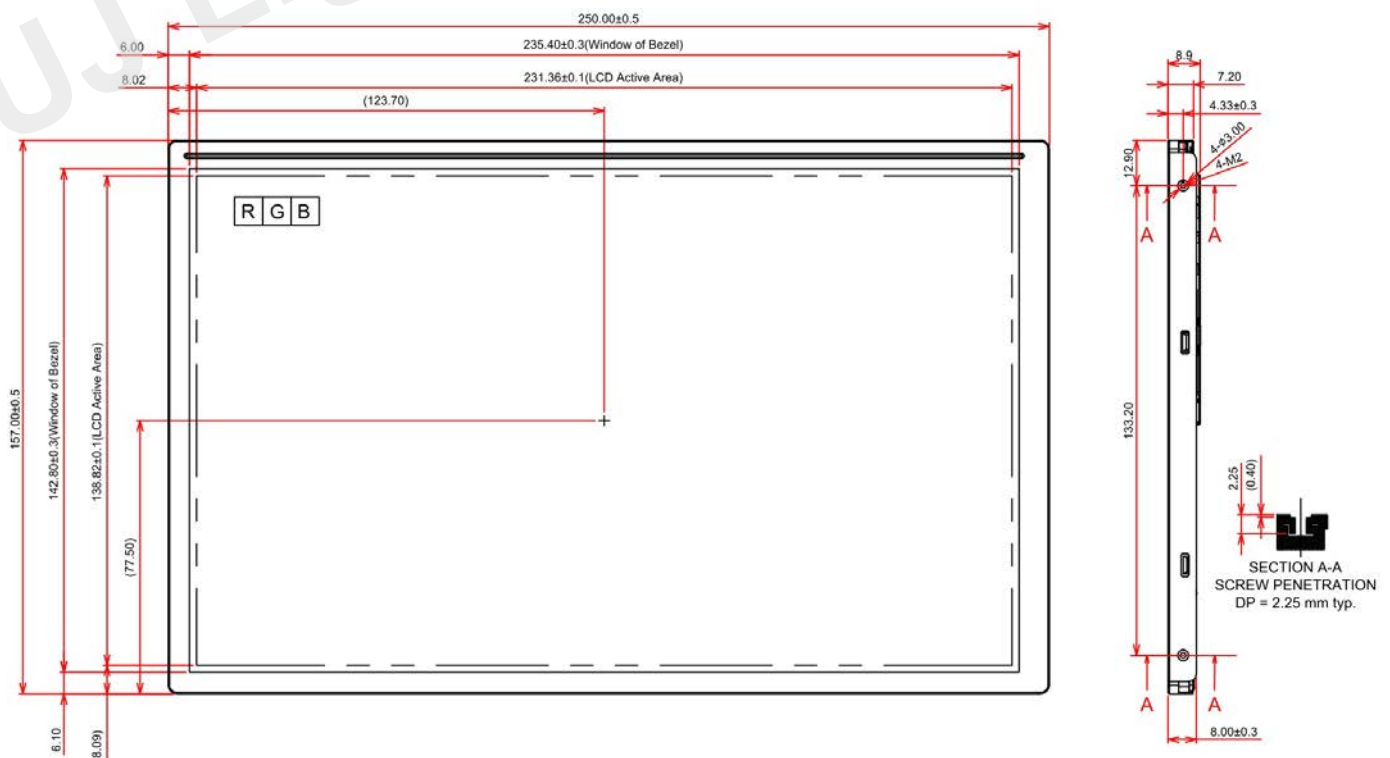
## Feature

1. 10.6" TFTLCD Module
2. Resolution:1280\*3(RGB)\*768
3. Display Type:TFT/Transmissive/Normally Black
4. Interface Type:LVDS
5. Surface Luminance:1000cd/m<sup>2</sup>
6. Top:-40℃~85℃

## Mechanical Data

1. Module(WxHxT)(mm):250\*157\*8.9 mm
2. Active Area(mm):231.36\*138.816 mm
3. LED Driving current: 690mA

## Dimension



## Interface Pin Function

| Pin No. | Signal          | Function (MODE = Low)                                          |                     | Function (MODE = High)       |
|---------|-----------------|----------------------------------------------------------------|---------------------|------------------------------|
|         |                 | 6 bit input                                                    | 8 bit input         | 8 bit input                  |
| 1       | V <sub>DD</sub> | +3.3V Power Supply for Logic                                   |                     | +3.3V Power Supply for Logic |
| 2       | V <sub>DD</sub> | +3.3V Power Supply for Logic                                   |                     | +3.3V Power Supply for Logic |
| 3       | V <sub>SS</sub> | GND                                                            |                     | GND                          |
| 4       | V <sub>SS</sub> | GND                                                            |                     | GND                          |
| 5       | Link 0-         | R0~R5, G0                                                      | R2~R7, G2           | R0~R5, G0                    |
| 6       | Link 0+         | R0~R5, G0                                                      | R2~R7, G2           | R0~R5, G0                    |
| 7       | V <sub>SS</sub> | GND                                                            |                     | GND                          |
| 8       | Link 1-         | G1~G5, B0~B1                                                   | G3~G7, B2~B3        | G1~G5, B0~B1                 |
| 9       | Link 1+         | G1~G5, B0~B1                                                   | G3~G7, B2~B3        | G1~G5, B0~B1                 |
| 10      | V <sub>SS</sub> | GND                                                            |                     | GND                          |
| 11      | Link 2-         | B2~B5, DE                                                      | B4~B7, DE           | B2~B5, DE                    |
| 12      | Link 2+         | B2~B5, DE                                                      | B4~B7, DE           | B2~B5, DE                    |
| 13      | V <sub>SS</sub> | GND                                                            |                     | GND                          |
| 14      | CLK IN-         | Pixel Clock -                                                  |                     | Pixel Clock -                |
| 15      | CLK IN+         | Pixel Clock +                                                  |                     | Pixel Clock +                |
| 16      | V <sub>SS</sub> | GND                                                            |                     | GND                          |
| 17      | Link 3-         | See:*2)                                                        | R0~R1, G0~G1, B0~B1 | R6~R7, G6~G7, B6~B7          |
| 18      | Link 3+         | See:*2)                                                        | R0~R1, G0~G1, B0~B1 | R6~R7, G6~G7, B6~B7          |
| 19      | MODE            | Low= 6bit / 8bit                                               |                     | High= 8bit                   |
| 20      | SD              | Scan direction control (Low, Default = Normal, High = Reverse) |                     |                              |

## Electronic Characteristics

### Module

| Item                                                   | Symbol          | Condition                              | Min.                | Typ. | Max.                | Unit |
|--------------------------------------------------------|-----------------|----------------------------------------|---------------------|------|---------------------|------|
| Power Supply Voltage                                   | V <sub>DD</sub> | -                                      | 3.0                 | 3.3  | 3.6                 | V    |
| Differential Input Voltage for LVDS Receiver Threshold | V <sub>I</sub>  | V <sub>IH</sub>                        | -                   | -    | +100                | mV   |
|                                                        |                 | V <sub>IL</sub>                        | -100                | -    | -                   |      |
| Power Supply Current                                   | I <sub>DD</sub> | V <sub>DD</sub> -V <sub>SS</sub> =3.3V | -                   | 350  | 440                 | mA   |
| Frame Frequency                                        | $f_{Frame}$     | -                                      | 55                  | 60   | 75                  | Hz   |
| CLK Frequency                                          | $f_{CLK}$       | -                                      | 50                  | 68.3 | 80                  | MHz  |
| Logic Input Voltage                                    | High            | V <sub>IH</sub>                        | 0.8xV <sub>DD</sub> | -    | V <sub>DD</sub>     | V    |
|                                                        | Low             | V <sub>IL</sub>                        | 0                   | -    | 0.2xV <sub>DD</sub> | V    |

### Backlight

| Item                              | Symbol           | Condition               | Min. | Typ. | Max. | Unit |
|-----------------------------------|------------------|-------------------------|------|------|------|------|
| LED Input Voltage                 | V <sub>LED</sub> | Backlight Unit          | 10.8 | 12   | 13.2 | V    |
| LED Forward Current (Dim Control) | I <sub>LED</sub> | 100% duty               | -    | 690  | 860  | mA   |
|                                   |                  | 0% duty                 | -    | 6.0  | -    |      |
| Backlight Enable                  | BLEN             | Backlight Unit          | 1.5  | -    | 5.5  | V    |
| LED Lifetime                      | -                | I <sub>LED</sub> =690mA | -    | 100K | -    | hrs  |