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# Product Specification

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**Product**      **Transparent Panel Module**  
**Model No.**   **ST-A1160T1001**

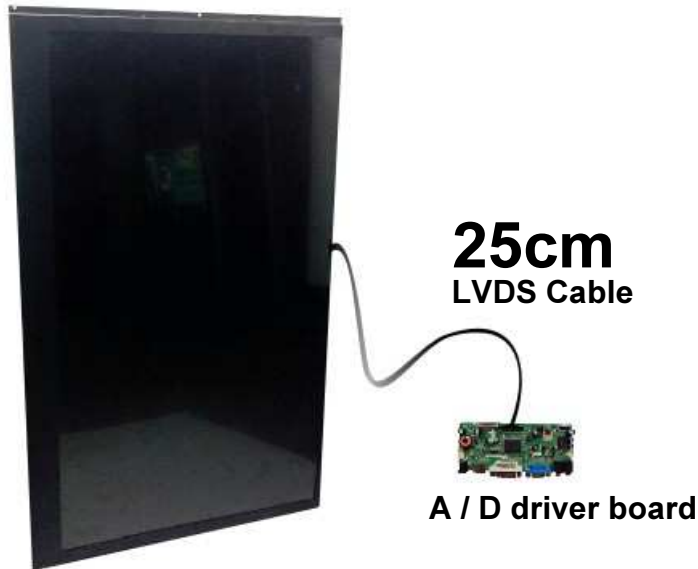
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## 1 GENERAL SPECIFICATIONS

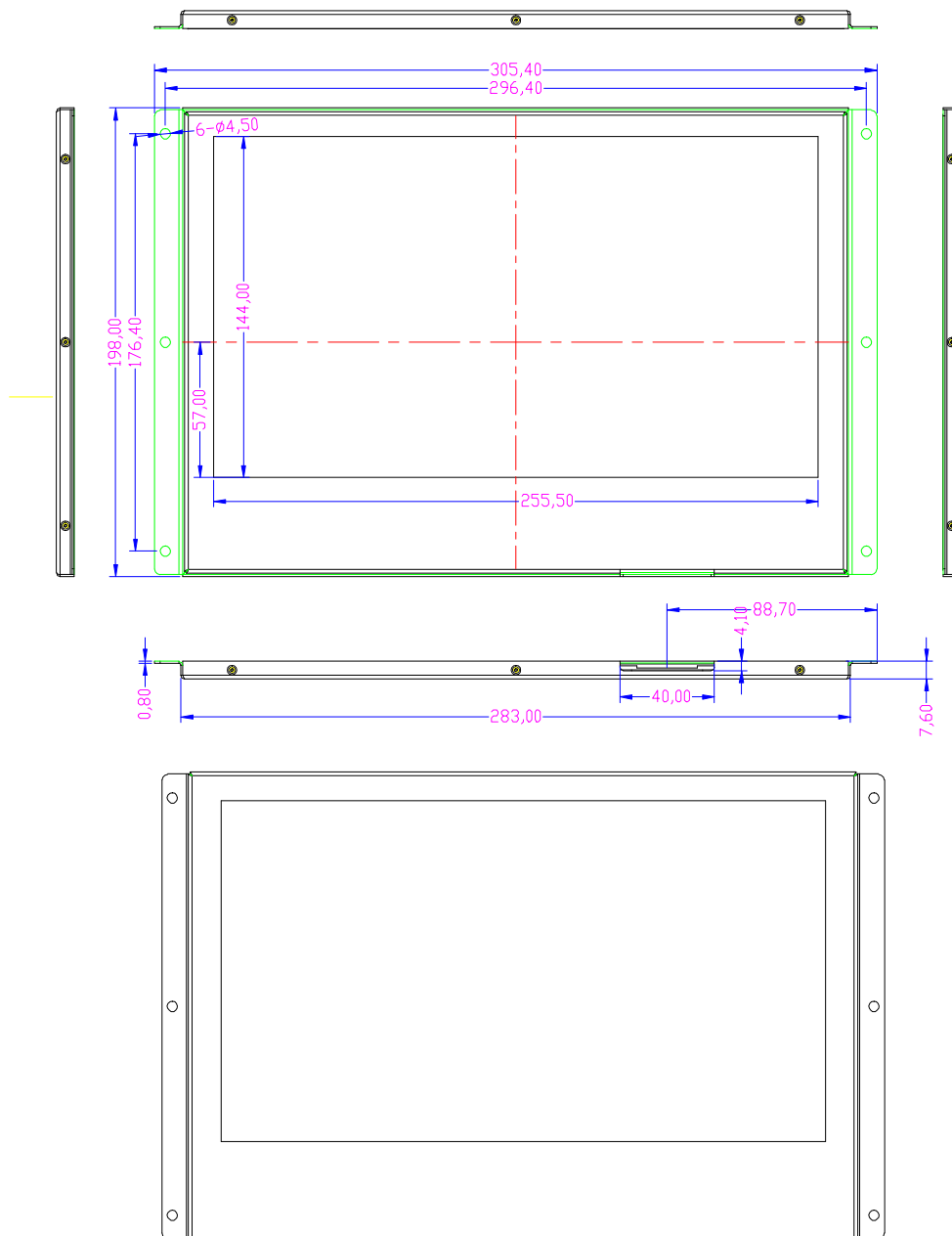
| Item               | Specification                              | Unit  | Note |
|--------------------|--|-------|------|
| Active Area        | 256.125 (H) x 144.00 (V) (11.6" diagonal ) | mm    | (1)  |
| Bezel Opening Area | 259.125(H) x 147.00(V)                     | mm    |      |
| Driver Element     | a-si TFT active matrix                     | -     | -    |
| Pixel Number       | 1366 x R.G.B. x 768                        | pixel | -    |
| Pixel Pitch        | 0.1875 (H) x 0.1875 (V)                    | mm    | -    |
| Pixel Arrangement  | RGB vertical stripe                        | -     | -    |
| Display Colors     | 262,144                                    | color | -    |
| Transmissive Mode  | Normally white                             | -     | -    |
| Surface Treatment  | Hard coating (3H), Glare                   | -     | -    |

### \* Link Diagram

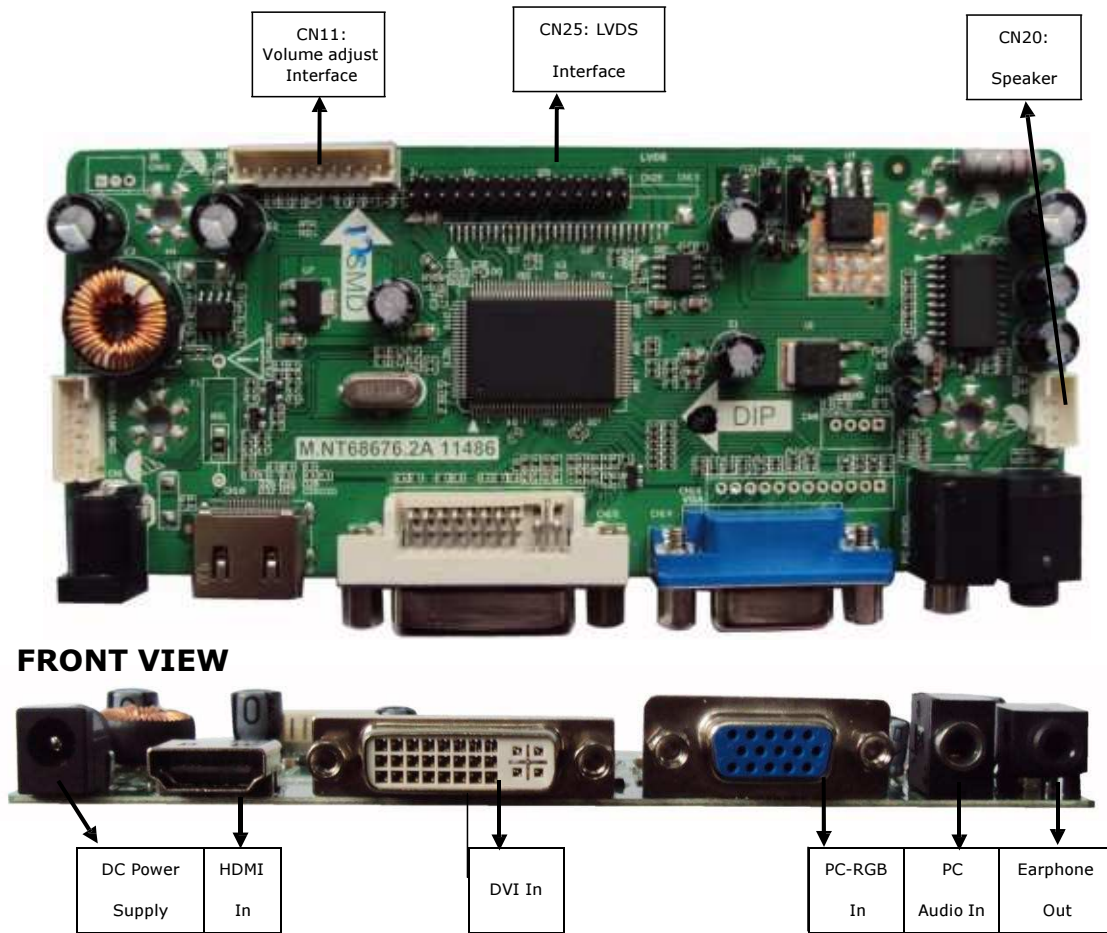
Transparent LCD panel frame



## 2. PANEL Mechanical Drawing



### 3. A/ D board



### Feature

|                     |   |   |                            |
|---------------------|---|---|----------------------------|
| <b>OSD LANGUAGE</b> | Simplified Chinese, Traditional Chinese, English, French, German, Italian, Spanish, Portuguese, Japanese, Korean (optional) |   |                            |
| <b>PANEL</b>        | Panel Type  | LED/LCD   |                            |
|                     | Interface   | Single/Dual LVDS (8bit)   |                            |
|                     | Max Resolution  | 2048×1152   |                            |
| <b>VIDEO INPUT</b>  | PC-RGB  | Format  | Up to 2048×1152@60Hz       |
|                     | HDMI  | 480i, 480p, 576i, 576p, 720p, 1080i, 1080p  |                            |
| <b>AUDIO INPUT</b>  | PC Audio  | Earphone Input  | 0.2 ~ 2.0 V <sub>RMS</sub> |
| <b>AUDIO OUTPUT</b> | Frequency Response  | 100Hz~15KHz @±3dB (1KHz, 0dB reference signal)                                    |                            |
|                     | Max Output power  | 2×1W(8Ù) THD+N<10%@1KHz<br>(Power Supply: 12V, Audio Input: 0.5V <sub>RMS</sub> ) |                            |
| <b>POWER</b>        | Requirement   | 12V DC/12V(built)/12V,5V(built in)/12V,5V,5VSB(built in)                          |                            |
|                     | To Panel  | 3.3V/5V/12V   |                            |
|                     | Management  | Standby Power Consumption < 0.5W(Board Only)                                      |                            |
| <b>KEY FUNCTION</b> | POWER,MENU,VOL+,VOL-,ADJUST/EXIT  |   |                            |

**CN11(10PIN/2.0): Volume adjust CONNECTOR**

| NO. | SYMBOL | DESCRIPTION     |
|-----|--------|-----------------|
| 1   | K0     | Key0            |
| 2   | RED    | Red Indicator   |
| 3   | GRN    | Green Indicator |
| 4   | GND    | Ground          |
| 5   | K1     | Key1            |
| 6   | K2     | Key2            |
| 7   | K3     | Key3            |
| 8   | K4     | Key4            |
| 9   | K5     | Key5            |
| 10  | K6     | Key6            |

**CN25(2×15PIN/2.0): LVDS INTERFACE CONNECTOR**

| NO. | SYMBOL | DESCRIPTION             |
|-----|--------|-------------------------|
| 1   | VSEL   | Power Supply for Panel  |
| 2   | VSEL   |                         |
| 3   | VSEL   |                         |
| 4   | GND    | Ground                  |
| 5   | GND    |                         |
| 6   | GND    |                         |
| 7   | TX00-  | LVDS ODD 0- Signal      |
| 8   | TX00+  | LVDS ODD 0+ Signal      |
| 9   | TX01-  | LVDS ODD 1- Signal      |
| 10  | TX01+  | LVDS ODD 1+ Signal      |
| 11  | TX02-  | LVDS ODD 2- Signal      |
| 12  | TX02+  | LVDS ODD 2+ Signal      |
| 13  | GND    | Ground                  |
| 14  | GND    |                         |
| 15  | TXOC-  | LVDS ODD Clock- Signal  |
| 16  | TXOC+  | LVDS ODD Clock+ Signal  |
| 17  | TXO3-  | LVDS ODD 3- Signal      |
| 18  | TXO3+  | LVDS ODD 3+ Signal      |
| 19  | TXE0-  | LVDS EVEN 0- Signal     |
| 20  | TXE0+  | LVDS EVEN 0+ Signal     |
| 21  | TXE1-  | LVDS EVEN 1- Signal     |
| 22  | TXE1+  | LVDS EVEN 1+ Signal     |
| 23  | TXE2-  | LVDS EVEN 2- Signal     |
| 24  | TXE2+  | LVDS EVEN 2+ Signal     |
| 25  | GND    | Ground                  |
| 26  | GND    |                         |
| 27  | TXEC-  | LVDS EVEN Clock- Signal |
| 28  | TXEC+  | LVDS EVEN Clock+ Signal |
| 29  | TXE3-  | LVDS EVEN 3- Signal     |
| 30  | TXE3+  | LVDS EVEN 3+ Signal     |

## CN20 (4PIN/2.0): SPEAKER CONNECTOR

| NO. | SYMBOL | DESCRIPTION                |
|-----|--------|----------------------------|
| 1   | LO     | Audio Left Channel Output  |
| 2   | GND    | Ground                     |
| 3   | GND    |                            |
| 4   | RO     | Audio Right Channel Output |

## CONFIGURATION & GENERAL PRECAUTIONS

- Relative humidity:  $\leq 80\%$ .
- Storage temperature:  $-10\sim 60^{\circ}\text{C}$ .
- Operation temperature:  $0\sim 40^{\circ}\text{C}$ .
- Protect the board from static electricity in case of damage to the IC.
- Keep the board away from conductor when it is working.
- Don't push or pull the connectors when the board is working.
- Don't press , distort or disassemble the board.
- Clean the board with soft dry cloth when it's dirty.
- Don't wire in the board to power supply before panel is correctly connected.

### A// D board Mechanical Drawing

**PCB DIMENSIONS** 139mm(L)\*58mm(W)\*17mm(H).

|      |              |
|------|--------------|
| Ver. | V1.0         |
| No.  | Description  |
| 1    | DC IN        |
| 2    | HDMI IN      |
| 3    | DVI IN       |
| 4    | VGA IN       |
| 5    | PC AUDIO IN  |
| 6    | EARPHONE OUT |

