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# Product Specification

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**Product**      **Transparent Panel Module**  
**Model No.**   **ST-A3150T1001**

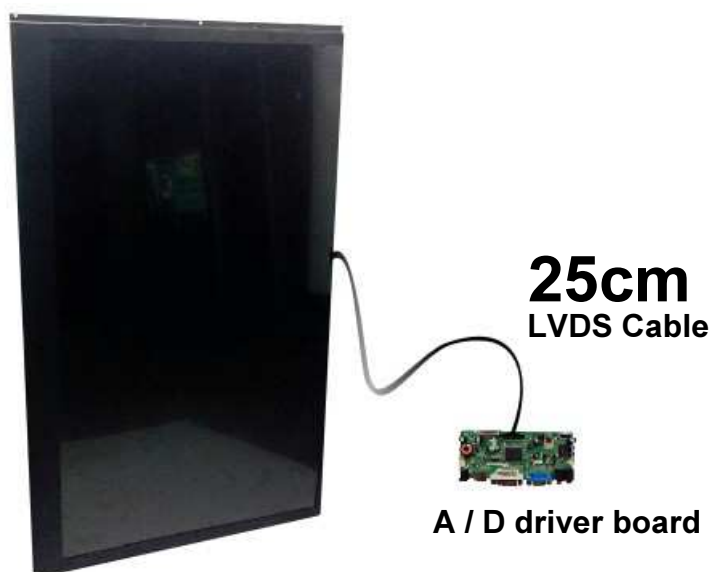
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## 1 General Information

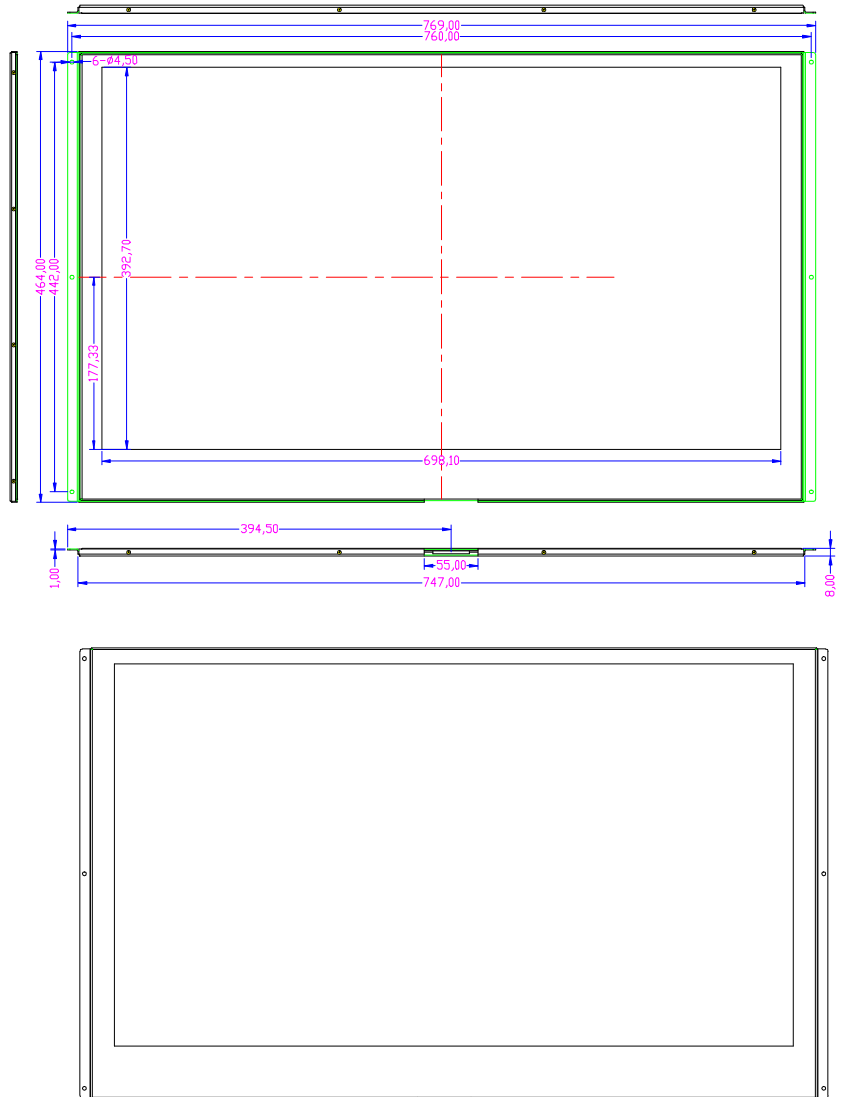
Item	Specification	Unit	Note
Active Area	697.6845 (H) x 392.2560 (V)	mm	
Cell Size	714.835(H) x 410.570 (V) x 1.900 (D)	mm	
Weight	1.2	kg	Max.
Driving Scheme	a-Si TFT Active Matrix	-	
Number of Pixels	1366 x 768	pixel	
Pixel Pitch (Sub Pixel)	0.17025 (H) x 0.51075 (V)	mm	
Pixel Arrangement	RGB Vertical Stripe	-	
Display Colors	16.7 M	color	8-bit
Display Mode	Transmissive Mode, Normally Black	-	
Glass thickness (Array/CF)	0.7/0.7	mm	
Color Chromaticity	R=0.638, 0.335 G=0.323, 0.621 B=0.156, 0.054 W=0.280, 0.290		Typical value measured at CSOT's module: MT3151A04-1
Contrast Ratio	4000:1(Typ.)		
Cell Transmittance	6.75%(Typ.)	%	
View Angle(CR>10)	+89/-89(H),+89/-89(V) (Typ.)		
Polarizer(CF side)	Anti-glare, Haze 12%, Hard Coating (3H)		
Polarizer(TFT side)	Hard Coating (3H)		

### \* Link Diagram

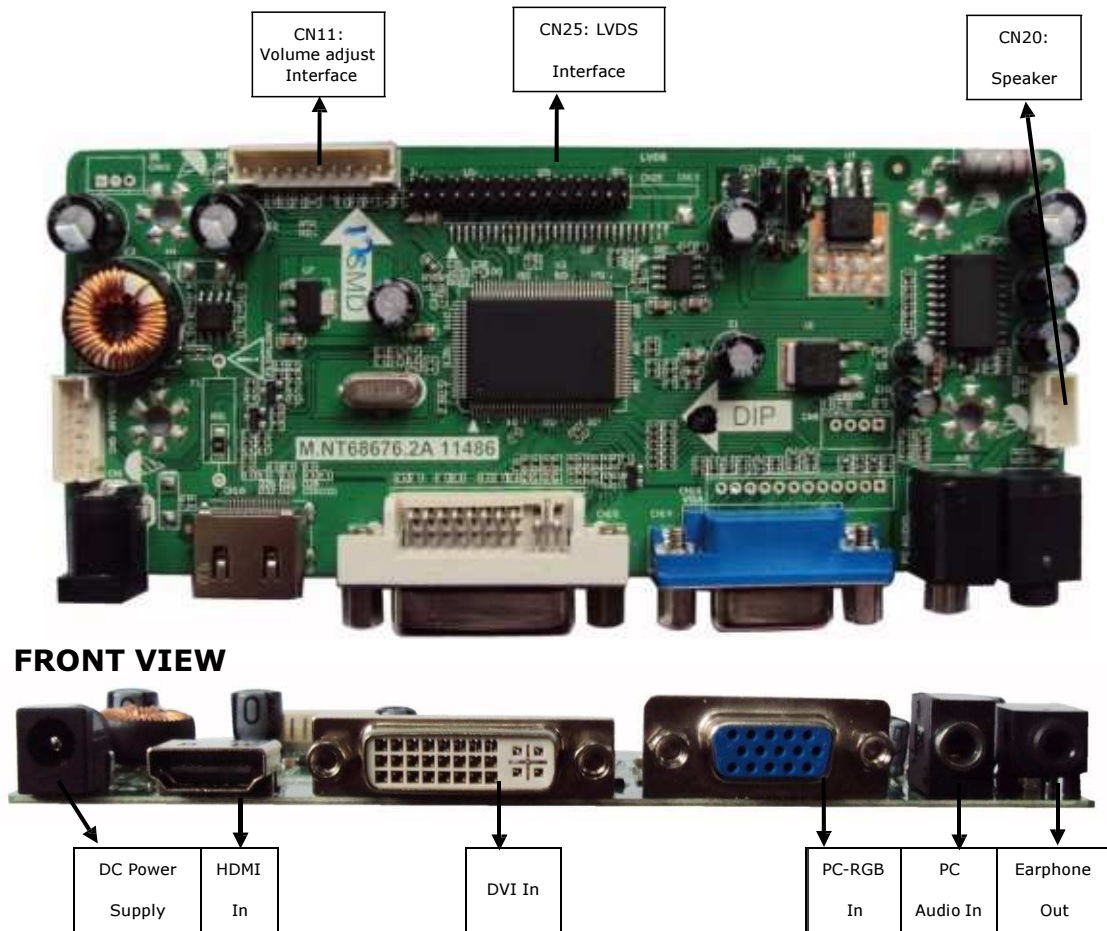
#### Transparent LCD panel frame



## 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(8Ω) THD+N<10%@1KHz (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	TX03-	LVDS ODD 3- Signal
18	TX03+	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.
- Do not push or pull the connectors when the board is working.
- Do not press, distort or disassemble the board.
- Clean the board with soft dry cloth when it's dirty.
- Do not wire the board to the 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

