# MONITOR CONTROL BOARD SPECIFICATION

**MODEL: M.NT68676.2A** 

Part Number: NT-11112749

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# **REVISION HISTORY**

VERSION	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V1.0	2011.12.27	M.NT68676.2A 11486	All	First issued.	Linda

## 1. GENERAL DESCRIPTION

**M.NT68676.2A** is a monitor control board, which is suitable for Asia-Pacific market. It can support LED/LCD panels which resolution is up to 2048×1152.

**M.NT68676.2A** can synchronize with computer automatically. Synchronization requires the synchronous signal which horizontal and vertical sync are separated.

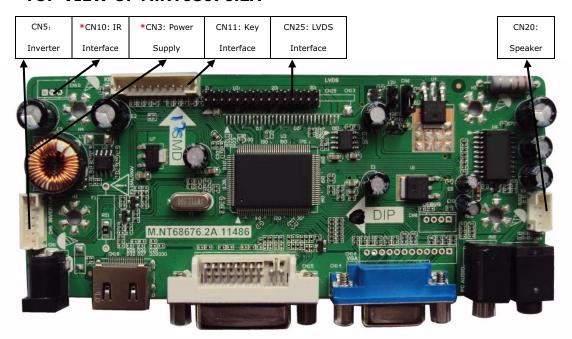
**M.NT68676.2A** can support dynamic contrast control, headphone input and Digital volume control simultaneously.

#### 2. FUNCTION LAYOUT

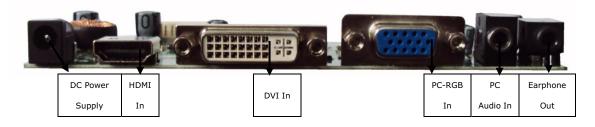
The picture is for a reference only, the actual item is the standard.

The optional connectors and terminals are marked with "\*".

#### **TOP VIEW OF M.NT68676.2A**



#### FRONT VIEW OF M.NT68676.2A

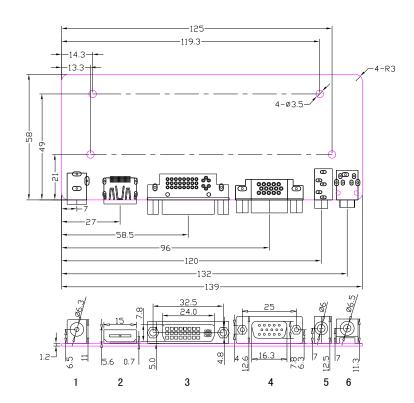


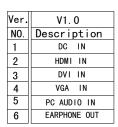
## 3. FEATURES

CHIPSET	NT68676(UFG)			
MARKET AREA	Asia-Pacific			
OSD LANGUAGE	Simplified Chinese, Traditional Chinese, English, French, German, Italian, Spanish,			
OSD LANGUAGE	Portuguese, Japanese, Korean (optional)			
	Panel Type	LED/LCD		
PANEL	Interface	Single/Dual LVDS (8bit)		
	Max Resolution	2048×1152		
VIDEO INPUT	PC-RGB	Format	Up to 2048×1152@60Hz	
AIDEO INPOT	HDMI	480i, 480p, 576i, 576p, 720p, 1080i, 1080p		
AUDIO INPUT	PC Audio	Earphone Input	0.2 ~ 2.0 V <sub>RMS</sub>	
	Frequency	100Hz~15KHz @±3dB (1KHz, 0dB reference signal)		
AUDIO OUTPUT	Response	100HZ~13KHZ @±3dB (	iknz, odb reierence signar)	
AUDIO OUTPUT	Max Output power	2×1W(8Ω) THD+N<10%@1KHz		
		(Power Supply: 12V, Audio Input: 0.5V <sub>RMS</sub> )		
	Requirement	12V DC/12V(built)/12V,5V(built in)/12V,5V,5VSB(built in)		
POWER	To Panel	3.3V/5V/12V		
	Management	Standby Power Consump	otion < 0.5W(Board Only)	
KEY FUNCTION	POWER,MENU,VOL+,	,VOL-,ADJUST/EXIT		

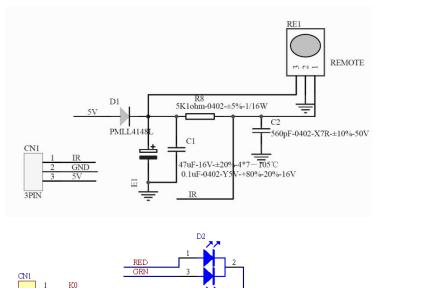
## 4. PCB DIMENSIONS

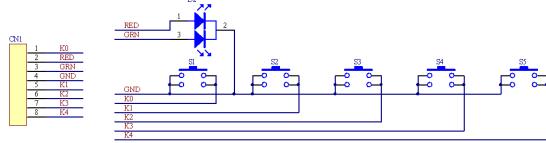
The size of M.NT68676.2A is 139mm(L)\*58mm(W)\*17mm(H).





## 5. SCHEMATICS OF IR BOARD & KEY BOARD





## 6. INTERFACE DEFINITION

The optional connectors are marked with "\*".

## **♦** CN5(6PIN/2.0): INVERTER CONNECTOR

NO.	SYMBOL	DESCRIPTION
1	12V	L12V DC Power Supply
2	12V	+12V DC Power Supply
3	BLO	Back-Light ON/OFF Control for Panel
4	ADJ	Brightness Adjustment for Panel
5	GND	Cround
6	GND	Ground

## ◆ \*CN10(3PIN/2.0): IR INTERFACE CONNECTOR

NO.	SYMBOL	DESCRIPTION
1	IR	IR Receiver
2	GND	Ground
3	5V	+5V DC Power Supply

#### ◆ \*CN3(6PIN/2.0): POWER SUPPLY CONNECTOR

NO.	SYMBOL	DESCRIPTION
1	PWON	Power On/Off
2	5VSB	+5V DC Power Supply for Standby Mode
3	5V	+5V DC Power Supply

NO.	SYMBOL	DESCRIPTION
4	5V	
5	GND	Cround
6	GND	Ground

**♦** CN11(10PIN/2.0): KEY INTERFACE 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	
2	VSEL	Power Supply for Panel
3	VSEL	
4	GND	
5	GND	Ground
6	GND	
7	TXO0-	LVDS ODD 0- Signal
8	TXO0+	LVDS ODD 0+ Signal
9	TXO1-	LVDS ODD 1- Signal
10	TXO1+	LVDS ODD 1+ Signal
11	TXO2-	LVDS ODD 2- Signal
12	TXO2+	LVDS ODD 2+ Signal
13	GND	Ground
14	GND	Ground
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

NO.	SYMBOL	DESCRIPTION
25	GND	Ground
26	GND	Ground
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	
3	GND	Ground
4	RO	Audio Right Channel Output

## 7. CONFIGURATION & GENERAL PRECAUTIONS

Relative humidity: ≤ 80%.

Storage temperature: -10~60°C.

Operation temperature: 0~40°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.