



**MULTI-INNO TECHNOLOGY CO., LTD.**

# **SPECIFICATION**

MI0700GTD

DRIVING BOARD FOR MI0700GT

Revision	
Engineering	
Date	
Our Reference	



**CUSTOMER APPROVAL**

Please return to us a copy of this page

APPROVED BY:

CHOP & SIGNATURES

DATE:

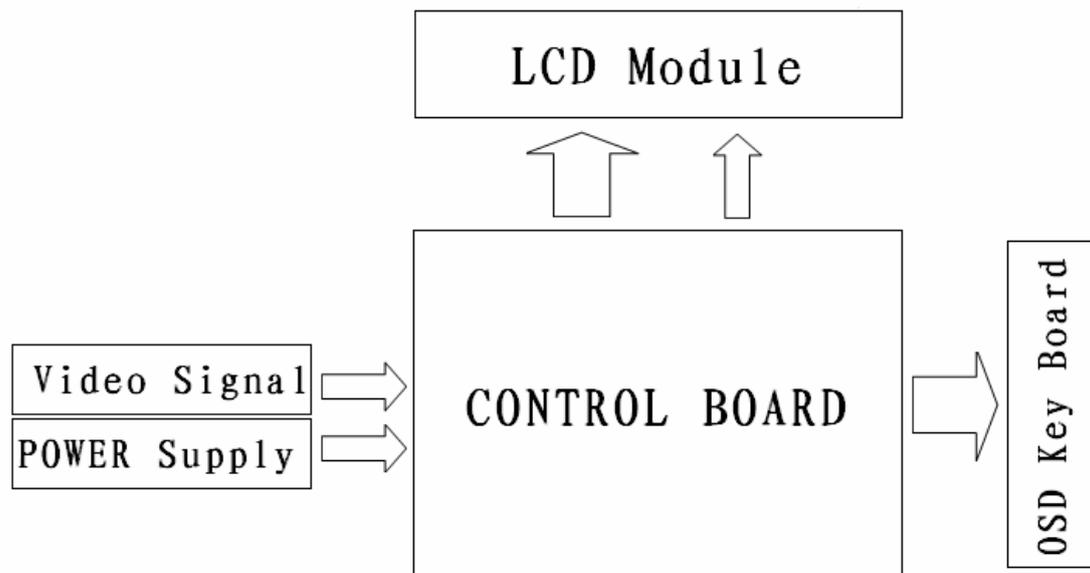
## A. Overview:

The MI0700GTD is a AV controlboard designed for 5.0", 5.6" or 7" analog TFT-LCD modules. It receives 1 channel NTSC/PAL CVBS input and 1 channel S-Video input Or 3 channels NTSC/PAL CVBS input from DVD, VCR sources, including some weak and distorted signals.

## B. Features:

- Single power supply, range: +7V~+18V.
- Support resolutions: 960\*234(dot) ,1200\*234(dot),1440\*234(dot).
- Support OSD and IR functions.
- Unique display image manipulation.
- Small size and thin thickness.
- Work Temperature: -20℃ - 60 ℃.
- The AUDIO Circuit must add external.

## C. Application diagram:



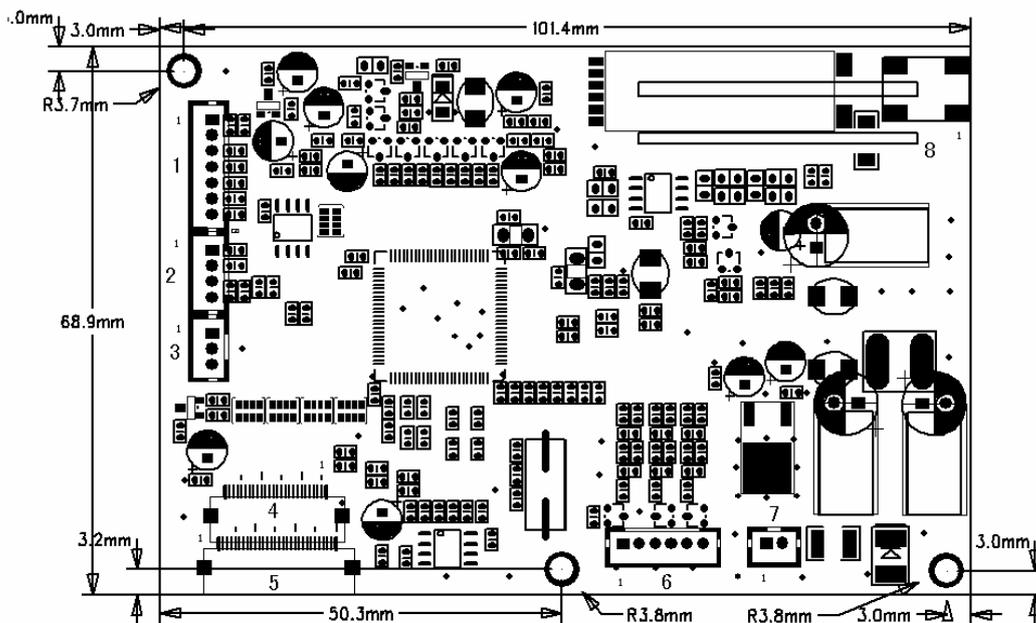
### D. Power Consumption

Condition	Current for $V_{in} (\pm 10\%)$			Unit
	Min	Typ	Max	
$V_{in} = 8V$		490		mA
$V_{in} = 12V$		400		mA
$V_{in} = 15V$		340		mA

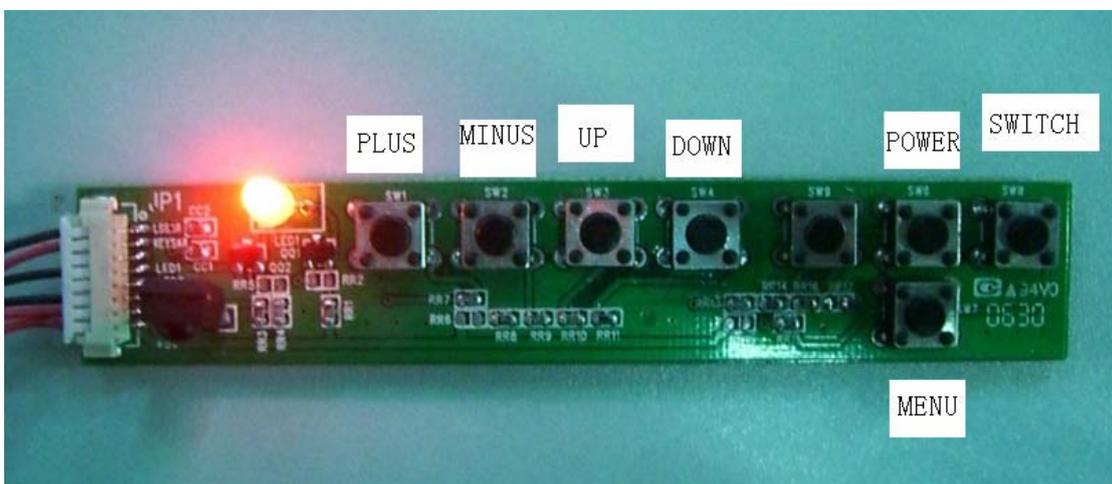
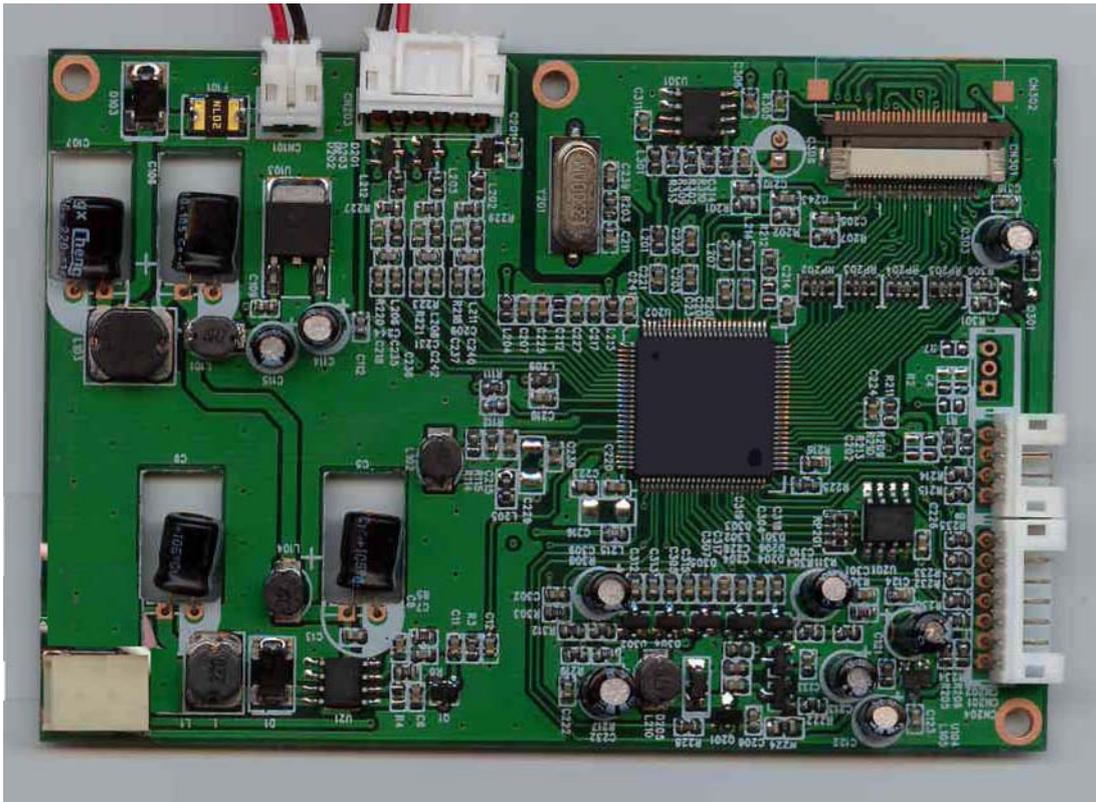
NOTE: We think the best input voltage is 12V.

### E. Outline Drawing

- **Size:** 101.4mm\*68.9mm
- **Thickness:** 10.2mm (max), including PCB board.



- Product Photo:



**F. Connector interface description:**

Connector NO.	Connector Description	Pin Description	
1	7 PIN Control Input /Output (Connected to OSD Key Board)	1	5V
		2	GND
		3	SARO
		4	SARI
		5	IR
		6	LEDR
		7	LEDG
2	4 PIN Program Write	1	SDA
		2	SCL
		3	GND
		4	5V
3	3 PIN Audio Control Output	1	MUTE
		2	STANDBY
		3	VOLUME
4	26 PIN FPC Output (Connected to LCD FPC)	1--26	SEE G
5	30 PIN FPC Output (Connected to LCD FPC)	1--30	SEE G
6	6 PIN Signal Input	1	CVBS1
		2	GND
		3	Y/CVBS2
		4	GND
		5	C/CVBS3
		6	GND
7	2 PIN Power Input	1	GND
		2	12V
8	2 PIN Backlight Output	1	HIGH
		2	LOW



## G. Connector Define:

Pitch: 0.5mm/26pin

Number	Symbol	Description
1	GND	Ground of Gate Driver.
2	VCC	Logic power of Gate Driver
3	VGL	Gate off Voltage (Alternative Every 1-H)
4	VGH	Gate on Voltage
5	STVR	Vertical Start Pulse input, when U/D=High
6	STVL	Vertical Start Pulse input, when U/D=LOW
7	CKV	Shift clock input for gate driver
8	U/D	Up / Down Control for Gate Driver
9	OEV	Output enable for Gate driver
10	VCOM	Common Electrode Voltage
11	VCOM	Common Electrode Voltage
12	L/R	Left / Right for Source Driver
13	Q1H	Analog signal rotate input.
14	OEH	Output enable for Source driver
15	STHL	Start Pulse for Source Driver input, when L/R=High
16	STHR	Start Pulse for Source Driver input, when L/R=LOW
17	CPH3	Sampling and Shift Clock for Source Driver
18	CPH2	Sampling and Shift Clock for Source Driver
19	CPH1	Sampling and Shift Clock for Source Driver
20	DVDD	Logic power input of Source driver.
21	DVSS	Ground of Source driver
22	VR	Video Input R
23	VG	Video Input G
24	VB	Video Input B
25	AVDD	Analog Power Input of Source Driver
26	AVSS	Analog GND of Source Driver

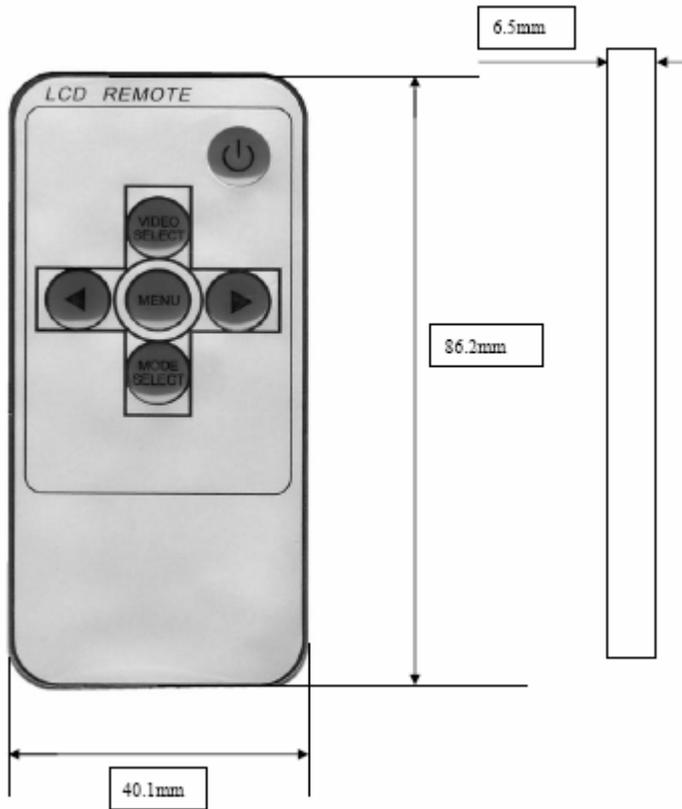


Pitch: 0.5mm/30pin

Number	Symbol	Description
1	D101	Vertical Start Pulse
2	CPV	Shift Clock For Gate Driver
3	VGL	Power For Gate Driver (AC Voltage)
4	NC	No Connection
5	VEE	Negative Power For Gate Driver (DC Voltage)
6	NC	No Connection
7	XOE	Output Enable For Gate Driver
8	VSS	GND For Digital Circuit
9	VCC	Supply Voltage For Logic Control Circuit For Gate Driver
10	NC	No Connection
11	VGH	Positive Power For Gate Driver
12	NC	No Connection
13	U/D	Up/Down For Gate Driver
14	D102	Vertical Start Pulse
15	VCOM	Common Electrode Voltage
16	STH1	Start Pulse For Source Driver
17	VDD1	Supply Power For Digital Circuit
18	VSS1	GND For Digital Circuit
19	VDD2	Supply Power For Analog Circuit
20	VSS2	GND For Analog Circuit
21	R/L	Left/Right Control For Source Driver
22	VR	Video Input R
23	VG	Video Input G
24	VB	Video Input B
25	CPH1	Sampling And Shift Clock For Source Driver
26	CPH2	Sampling And Shift Clock For Source Driver
27	CPH3	Sampling And Shift Clock For Source Driver
28	STH2	Start Pulse For Source Driver
29	OEH	Output Enable For Source Driver
30	NC	No Connection

## H. LCD REMOTE ( NEC CODE )

### Outline Drawing



## I. OSD Function

Complete OSD Function and IR Function (NEC CODE), could be modified to meet different requirements of customers.

**POWER Key-SW6: Power on/off.**

**SWITCH Key-SW8: Switch the input source.**

**MENU Key-SW7: OSD on/Page move.**

**UP Key-SW3: Select the menu and menu move.**

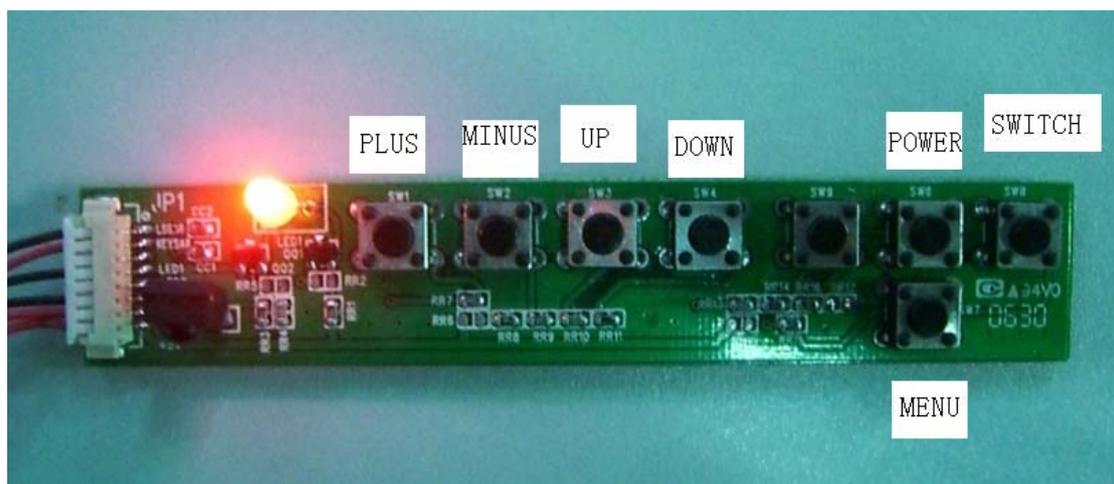
**DOWN Key-SW4: Select the menu and menu move.**

**MINUS Key-SW2: Enter the select menu/ minus value and save.**

**PLUS Key-SW1: Enter the select menu/ plus value and save.**

**NOTE:** The all keys could be defined any function you want.

### ● KEY BOARD



## PICTURE MENU

Adjust the display parameters.



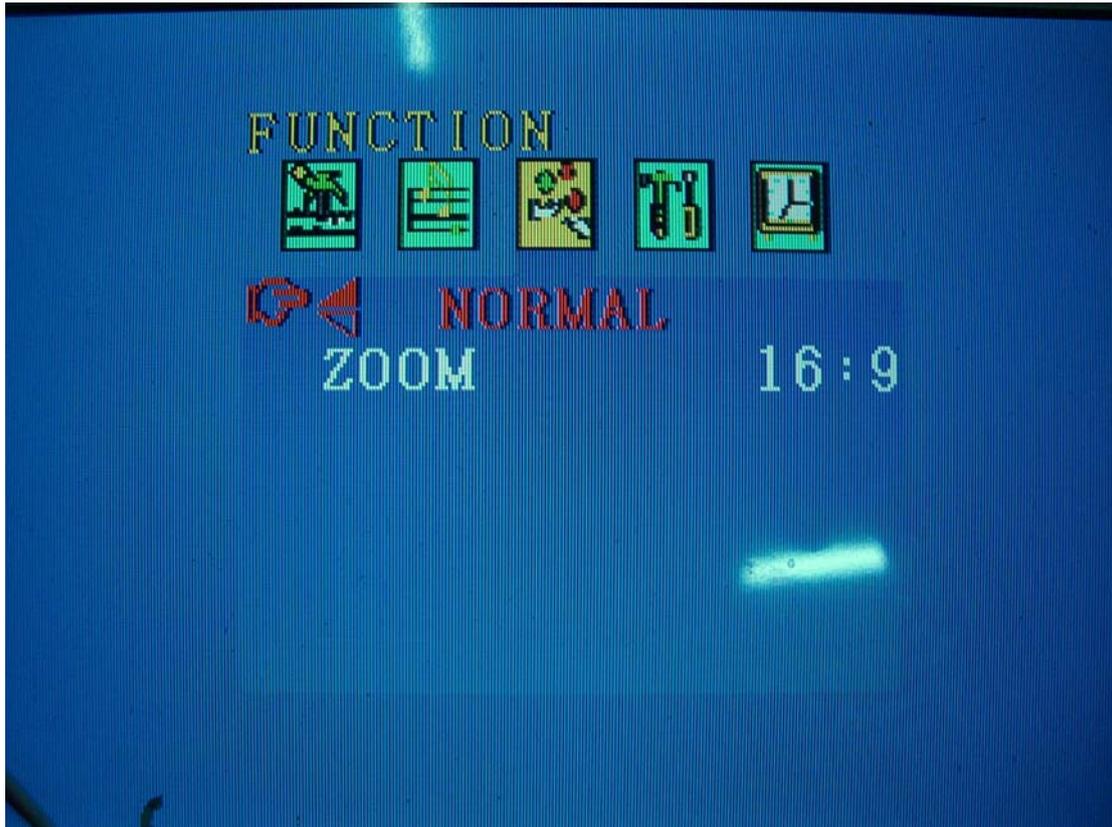
## AUDIO MENU

Adjust the volume.



## FUNCTION MENU

Change the display mode.



## SYSTEM MENU

Adjust the color mode.



## PRESET MENU

Set the timer.

