



NJY Technology Co.,Ltd

## **NJY TECHNOLOGY CO.,LTD**

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## 1. GENERAL DESCRIPTION

6M16V2.0-C is a multi-purpose LCD controller, it is suitable for the Asian market. It is designed to support dual/single LVDS which more than 19 inch LCD panel.

The main feature of 6M16V2.0-C can support VGA, HDMI, YPBPR, AV1, AV2, S-VIDEO, TV signal input. It can support AV output.

It can support USB function (Option).

## 2. FEATURES

Below you will find the detailed feature

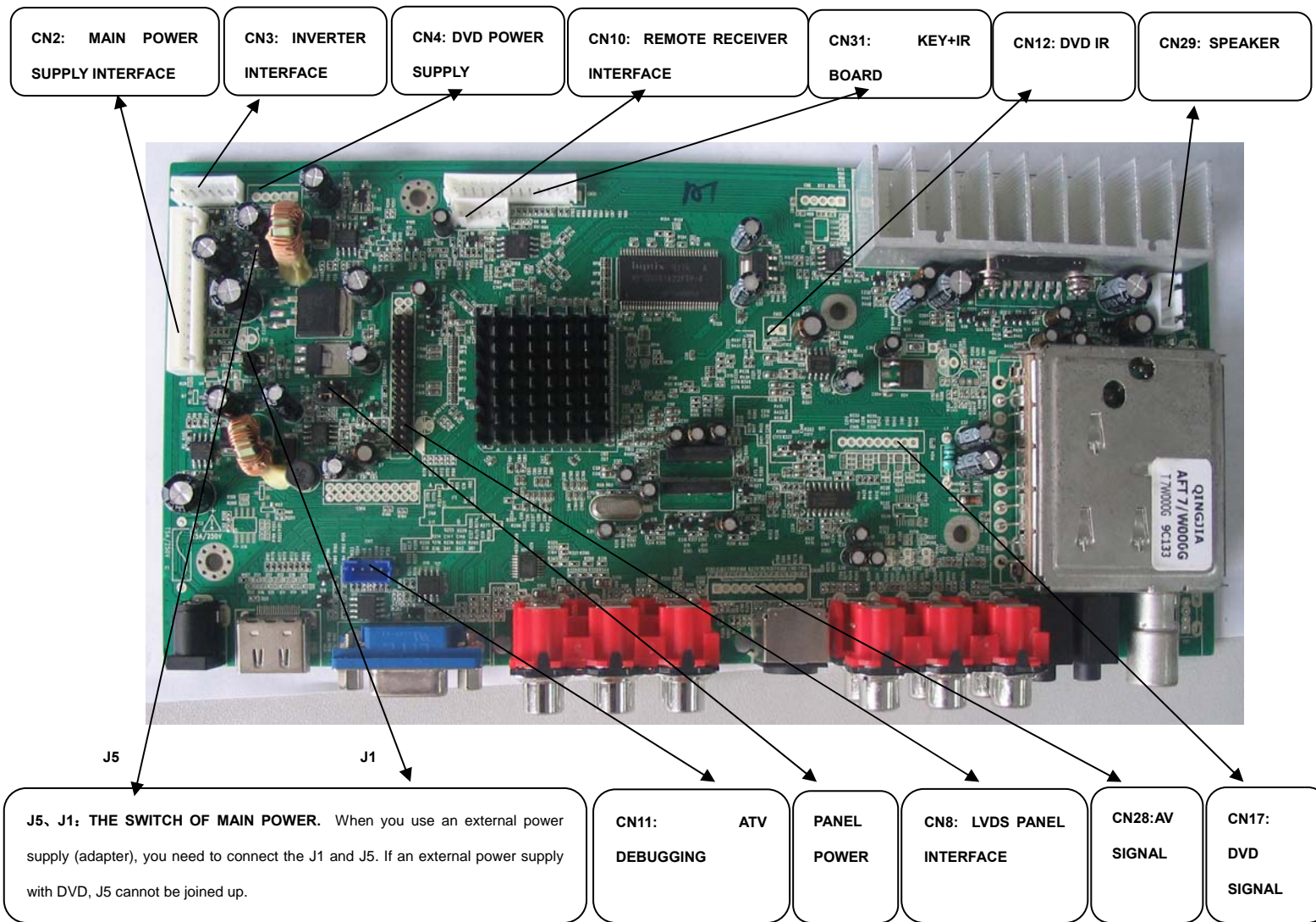
Video Input	TV	VIDEO SYSTEM		PAL、SECAM
		SOUND SYSTEM		BG ,DK ,I,L, L'
		RECEIVE CHANNEL		120
	S-Video	S-Y:1.0V Vp-p +/-5% S-C:0.3Vp-p, +/-5%		
	CVBS	1.0Vp-p +/-5%		
	YPbPr/YCbCr	480i、480p、576i、576p、720p、1080i,1080P		
	PC-RGB	Format	Up to 1920*1080@60HZ	
		Color	16bit, 24bit, 32bit	
	HDMI	480i、480p、576i、576p、720p、1080i,1080p		
SCART	YES			
Expansion function	USB	YES		
	Inbuilt DVD	YES		
Audio input	S-Video/CVBS	Left and right audio input		
	PC-RGB	Pc: Earphone input		
Power	Power Requirement	12V,5V		
	To panel	3.3V,5V,12V		
	Manage	Low power consumable mode: standby<1w		
OSD Language	English,( French ,Spanish ,Italian, German, Portuguese, Dutch etc)(Option )			
Key Functions	CH-,CH+,MENU,VOL-,VOL+,PC/AV,ON/OFF (Control by remote control)			
Audio Output	2*5w (8Ω)			
Comb Filter	3D	De-interlace	3D	
Weak signal enhancement	NO			
Noise reduction	YES			
PIP/POP	YES			
EPG	NO			
NICAM/A2, TELETEXT	YES			
Panel Resolutions	Up to1920*1080@60HZ			
Terminals	Input	TV Input	1 IEC 75 Ω	
		PC-RGB Input	1D-SUB 15PIN terminal blue color	

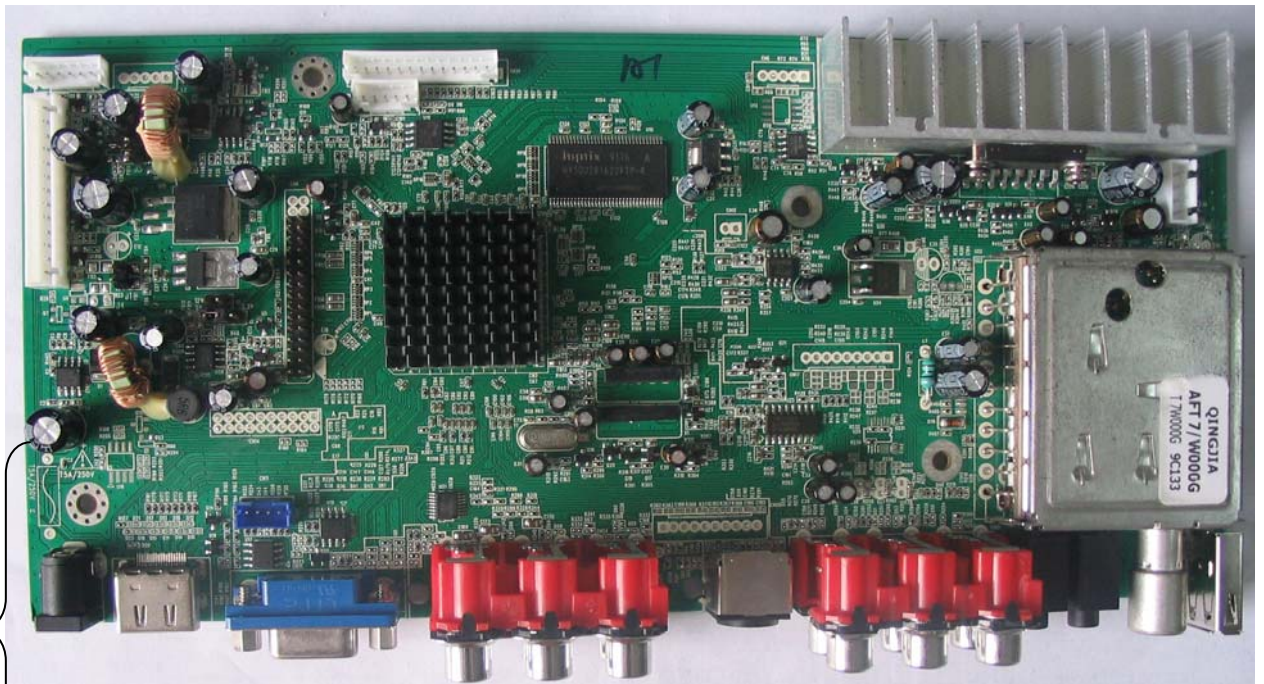
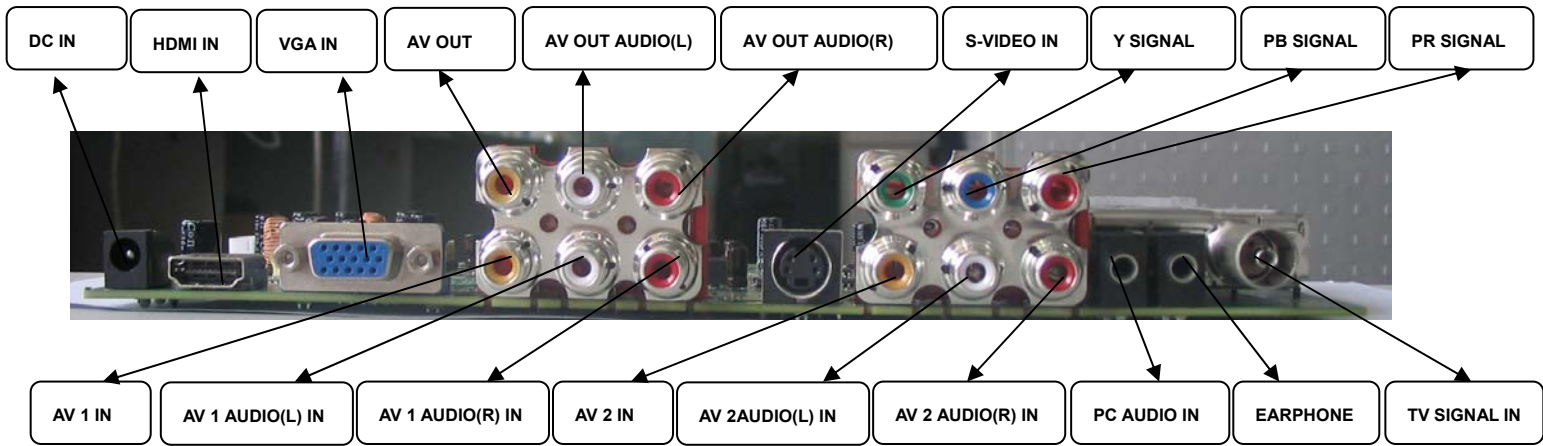
	S-Video Input	1S-Video terminal black color
	CVBS Input	2RCA terminal yellow color
	YPbPr Input	3RCA terminal green color, blue color and red color
	HDMI Input	1HDMI terminal
	SCART	/
	CVBS Audio Input	2*2RCA terminal white color, red color
	YPbPr Audio Input	2RCA terminal white color, red color
	PC-RGB Audio Input	1 earphone terminal black color
Output	To Panel	LVDS 30PIN/2.0 jack

### 3. FUNCTION LAYOUT

#### PICTURE OF LCD CONTROLLER

图片仅供参考,以实物为准!





USB IN

**INTERFACE DEFINITION**

Below ,please see the symbol and description from left to right pin  
**CN2 ( 13PIN/2.54 ) MAIN POWER SUPPLY INTERFACE**

NO	SYMBOL	DESCRIPTION
1	12VIN	+12V DC Power supply
2	12VIN	

3	GND	Ground
4	GND	
5	GND	
6	5V	+5V DC Power supply
7	5V	
8	5VS	Power standby
9	ON/OFF	Power switch control
10	5V	+5V DC Power supply
11	5V	
12	GND	Ground
13	GND	

### CN3(6PIN/2.0) INVERTER INTERFACE

NO	SYMBOL	DESCRIPTION
1	GND	Ground
2	GND	
3	ADJ	Brightness adjustment
4	BKL	Black-light ON/OFF control
5	12V	+12V DC Power supply
6	12V	

### CN4(5PIN/2.0) DVD POWER SUPPLY

NO	SYMBOL	DESCRIPTION
1	12V	12V power supply
2	GND	Ground
3	GND	
4	5V_DVD	DVD 5V power supply
5	5V_DVD	

### CN8(2\*15PIN/2.0) LVDS PANEL INTERFACE

NO	SYMBOL	DESCRIPTION
1	VDD	Power for panel
2	CT	mode pin for Panel
3	VDD	Power for panel
4	GND	Ground
5	GND	
6	GND	
7	RX00-	LVDS 0DD 0- Signal
8	RX00+	LVDS 0DD 0+ Signal
9	RX01-	LVDS 0DD 1- Signal
10	RX01+	LVDS 0DD 1+ Signal
11	RX02-	LVDS 0DD 2- Signal
12	RX02+	LVDS 0DD 2+ Signal

13	GND	Ground
14	GND	
15	RX0C-	LVDS 0DD Clock- Signal
16	RX0C+	LVDS 0DD Clock+ Signal
17	RX03-	LVDS 0DD 3- Signal
18	RX03+	LVDS 0DD 3+ Signal
19	RXE0-	LVDS EVEN 0- Signal
20	RXE0+	LVDS EVEN 0+ Signal
21	RXE1-	LVDS EVEN 1- Signal
22	RXE1+	LVDS EVEN 1+ Signal
23	RXE2-	LVDS EVEN 2- Signal
24	RXE2+	LVDS EVEN 2+ Signal
25	GND	Ground
26	GND	
27	RXEC-	LVDS EVEN Clock- Signal
28	RXEC+	LVDS EVEN Clock+ Signal
29	RXE3-	LVDS EVEN 3- Signal
30	RXE3+	LVDS EVEN 3+ Signal

**Note: According to the panel TIMODE**

#### **CN10(5PIN/2.0) REMOTE RECEIVER INTERFACE**

<b>NO</b>	<b>SYMBOL</b>	<b>DESCRIPTION</b>
1	GND	Ground
2	IR_IN	Remote receiver
3	LED_G	Green indicator
4	LED_R	Red indicator
5	IR_VCC	IR power supply

#### **CN31(14PIN/2.0)KEY+IR BOARD**

<b>NO</b>	<b>SYMBOL</b>	<b>DESCRIPTION</b>
1	NC	NC
2	CH-	CH+ key
3	CH+	CH- key
4	MENU	MENU key
5	SOURCE	SOURCE key
6	VOL-	VOL- key
7	VOL+	VOL+ key
8	GND	Ground
9	LED_G	Green indicator
10	LED_R	Red indicator
11	POWER	ON/OFF key
12	GND	Ground

13	IR_IN	Infrared receiver
14	IR_VCC	Power supply

#### CN12(2PIN/2.0) DVD IR

NO	SYMBOL	DESCRIPTION
1	GND	Ground
2	DVD_IR	DVD IR

#### CN17 (9PIN/2.0) DVD Signal

NO	SYMBOL	DESCRIPTION
1	DVD_Y	DVD Y signal
2	GND	Ground
3	DVD_PB	DVD PB signal
4	GND	Ground
5	DVD_PR	DVD PR signal
6	GND	Ground
7	DVD_R	DVD audio right
8	GND	Ground
9	DVD_L	DVD audio left

#### CN29(4PIN/2.54) SPEAKER

NO	SYMBOL	DESCRIPTION
1	R+	Right audio channel out
2	R-	Negative Left audio channel out
3	L-	Negative Right audio channel out
4	L+	Left audio channel out

#### CN28(10PIN/2.0)AV SIGNAL

NO	SYMBOL	DESCRIPTION
1	AV_IN	AV signal in
2	GND	Ground
3	AV-L	AV (L) signal in
4	AV-R	AV (R) signal in
5	GND	Ground
6	AV_OUT	AV signal out
7	AV_OUT_L	AV (L) signal out
8	AV_OUT_R	AV (R) signal out
9	GND	Ground
10	SAR	ADC

#### CN11(4PIN/2.0)ATV DEBUGGING

NO	SYMBOL	DESCRIPTION
1	GND	Ground







