Tailorpixels

A Professional Manufacturer of Display

Manufacturer Certificated

9001 CERT. No.: 282Q19070712006

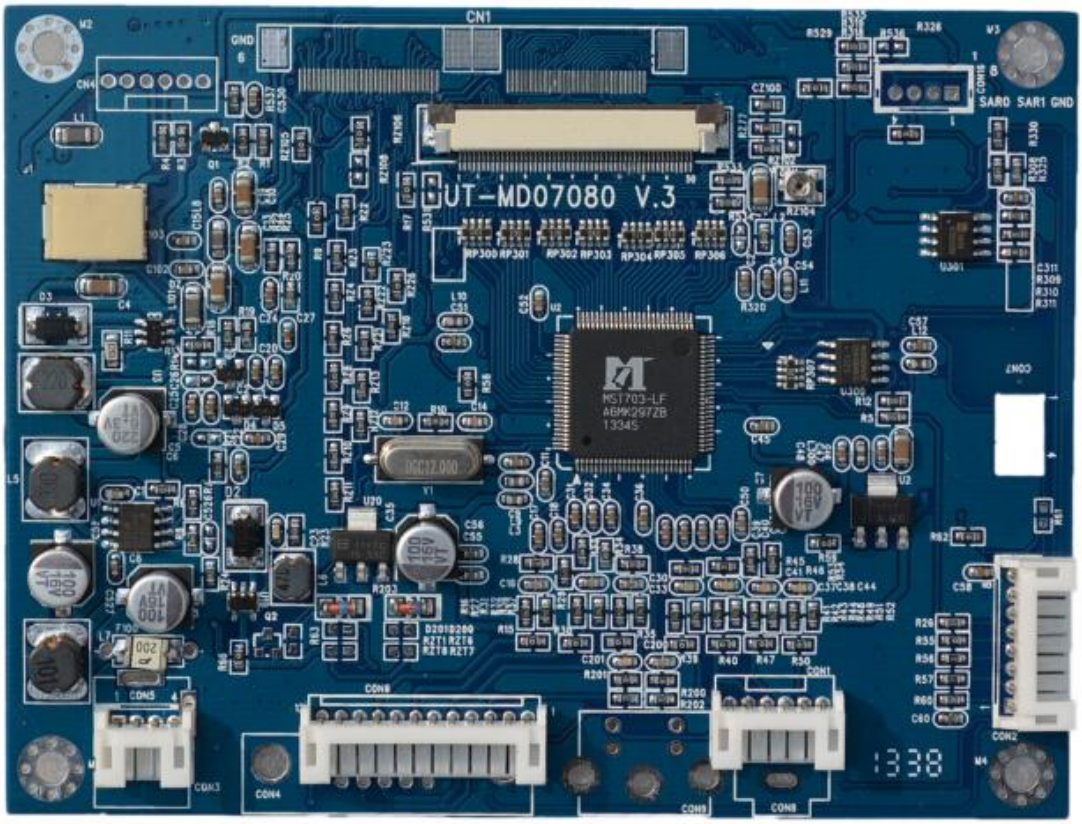
14001 CERT. No.: 282E19070712007

Product Specification

Model: TBJ080VG-01

VGA/CVBS Display Board

This module uses ROHS material



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Contents

1.Record of Revision

Version	Revise Date	Content	Remark
V1.0	2015/07/01	-	-

2. General Specifications

Feature		Spec
Characteristics	Size	7.0inch
	LCM Resolution supported(Max)	800*480
	Pixel Configuration	R.G.B.-Stripe
	Interface	VGA/CVBS
	Connect type	Cable
	Key	5key
Mechanical	PCB (W x H)	113.7*86.8mm
	LCM connector	50PIN/0.5mm
	AV connector	6PIN/2.0mm
	VGA connector	12PIN/2.0mm

3. Electrical Characteristics

Item	Symbol	MIN	Typ	MAX	Unit
Supply Voltage	VDD	10.5	12	13.5	V
Direct Current	Idd	270	230	200	mA
Operating Temperature	TOPR	-10	-	60	℃
Storage Temperature	TSTG	-20	-	70	℃

4.PIN-MAP

4.1 CON8（AV PIN 6PIN/2.0mm)

Pin No.	Symbol	Function
1	C+	S- Video signal
2	Y+	S- Video signal
3	CVBS2	AV input signal
4	GND	GROUND
5	CVBS1	AV input signal
6	GND	GROUND

4.2 CON4 (VGA PIN 12PIN/2.0mm)

Pin No.	Symbol	Function
1	GND	Power ground
2	VS	VSYNC signal
3	HS	HSYNC signal
4	GND	Power ground
5	R+	Red signal +
6	GND	Power ground
7	G+	Green signal +
8	GND	Power ground
9	B+	Blue signal +
10	GND	Power ground
11	SDA	I2C data input
12	SCL	I2C clock

4.3 CON2（Key board） 8PIN/2.0mm

Pin No.	Symbol	Function
1	KEY5	Menu
2	KEY4	Reduce key
3	KEY3	Increase key
4	KEY2	SOURCE/UP
5	KEY1	（POWER）
6	IR	Remote control
7	GND	GND
8	VCC	3.3V

4.4 CON3（4PIN/2.0mm）

Pin No.	Symbol	Function
1	+12V	Power supply
2	+12V	Power supply
3	GND	Power ground
4	GND	Power ground

4.5 CN5 (LCM PIN 50PIN/ 0.5mm)

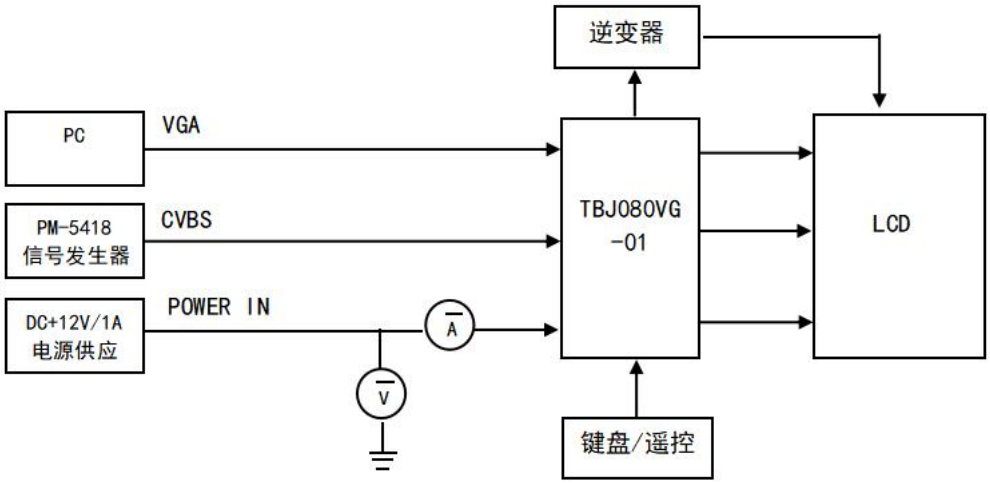
Pin No.	Symbol	Function
1-2	VLED+	Power for LED backlight anode
3-4	VLED-	Power for LED backlight cathode
5	GND	Power ground
6	VCOM	VCOM input
7	VCC	Digital power supply(+3.3V)
8	MODE	DE or HV mode control
9	DE	Data Enable
10	VS	Vsync signal input
11	HS	Hsync signal input
12-19	B7-B0	Blue data input (MSB)
20-27	G7-G0	Green data input(MSB)
28-35	R7-R0	Red data input(MSB)
36	GND	Power ground
37	DCLK	Sample clock
38	GND	Power ground
39	L/R	Select left to right scanning direction
40	U/D	Select up or down scanning direction
41	VGH	Positive power for scan driver
42	VGL	Negative power for scan driver
43	AVDD	Power supply for analog circuit
44	RESET	Reset
45	POL	Polarity select for the line inversioncontrol signal
46	VCOM	VCOM input
47	NC	No Connector
48	NC	No Connector
49	NC	No Connector
50	NC	No Connector

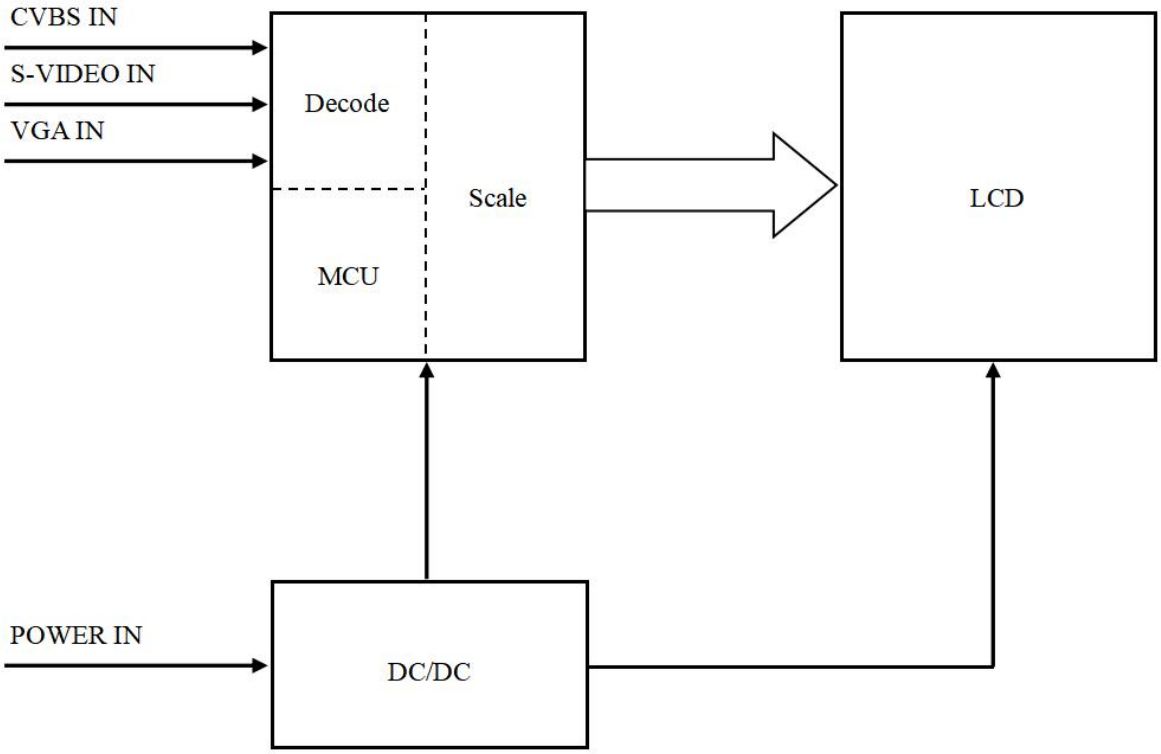
4.6 CN1 (LCM PIN 30PIN*2/ 0.5mm)

Pin No.	Symbol	Function
1	POL	Polarity Selection
2	STVD	Vertical start
3	OEV	Output enable
4	CKV	Vertical clock
5	STVU	Vertical start
6	GND	Power ground
7	EDGSL	Select rising
8	VCC	Power supply
9	V9	Gamma voltage
10	VGL	Gate OFF
11	V2	Gamma voltage
12	VGH	Gate ON
13	V6	Gamma voltage
14	U/D	Up/down selection
15	VCOM	Common voltage
16	GND	Power ground
17	AVDD	Power supply
18	V14	Gamma voltage
19	V11	Gamma voltage
20	V8	Gamma voltage
21	V5	Gamma voltage
22	V3	Gamma voltage
23	GND	Power ground
24	R5	Red data(MSB)
25	R4	Red data
26	R3	Red data
27	R2	Red data
28	R1	Red data
29	R0	Red data(LSB)
30	GND	Power ground
31	GND	Power ground
32	G5	Green data(MSB)
33	G4	Green data
34	G3	Green data
35	G2	Green data
36	G1	Green data
37	G0	Green data(LSB)

38	STHL	Horizontal start
39	INV	Control signal
40	GND	Power ground
41	DCLK	Sample clock
42	VCC	Voltage for digital circuit
43	STHR	Horizontal start pulse input when R/L = L
44	LD	Latches the polarity of outputs and switches the new data to outputs
45	B5	Blue data (MSB)
46	B4	Blue data
47	B3	Blue data
48	B2	Blue data
49	B1	Blue data
50	B0	Blue data
51	R/L	Right/left
52	V1	Gamma voltage
53	V4	Gamma voltage
54	V7	Gamma voltage
55	V10	Gamma voltage
56	V12	Gamma voltage
57	V13	Gamma voltage
58	AVDD	Voltage for analog circuit
59	GND	Power ground
60	VCOM	Common voltage

5. Block Diagram





6. Mechanical Drawing