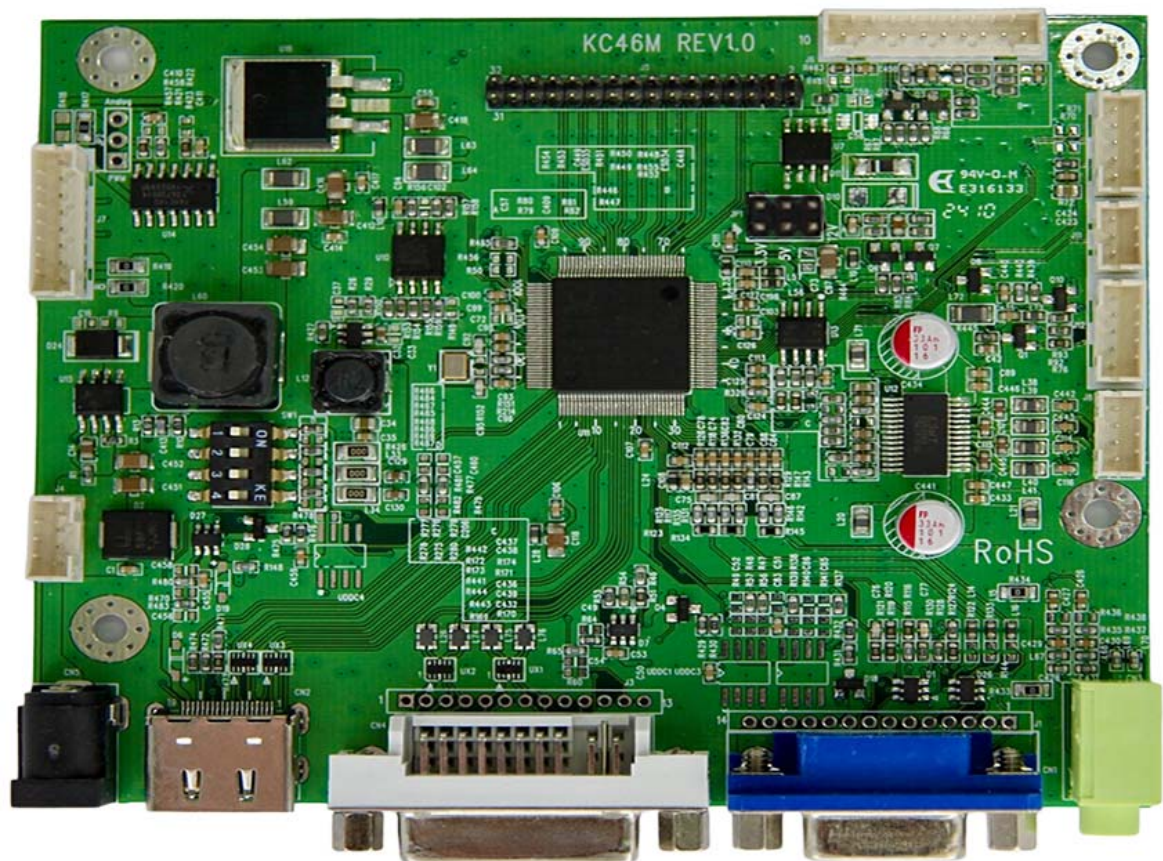


KC46M



A/D board option

Mode	Teleview part no.	Description
1	C46MA525AIH--	VGA+DVI+HDMI, audio
2	C46MA525NIH--	VGA+DVI+HDMI, No audio
3		
4		
5		

Features

- Compatible from VGA up to Full HD resolution (1920x1200) TFT LCD panel.
- Supply single pixel (24bits) or dual pixel (48bits) digital RGB output.
- Support Vertical refresh rate up to 75Hz for VGA~1920x1200 and 60Hz for higher resolution of VESA Standard Timing.
- Support VGA analog standard input signal 15-pin D-Sub connectors (option).
- Automatic detection of separate synchronize and composite synchronizes of VGA.
- Support Digital Signal input DVI 1.0 (option).
- Support Audio Amplifier function (option).
- Support High-Definition Multimedia Interface HDMI 1.4 input (option).
- RS232 support (option)
- IR remote control (option)
- DC 12V input .
- Operating temperature : -30 °C to +80 °C.
- Storage temperature : -40 °C to +80 °C.
- RoHS compliant .

1. Support Timing Table

Mode	Resolution	V Freq.(Hz)
1	640*480	60/75
2	720*400	70
3	800*600	60/75
4	1024*768	60/75
5	1280*720	60
6	1280*1024	60/75
7	1360*768	60
8	1440*900	60
9	1680*1050	60
10	1920*1080	60
11	1920*1200	60

2. Connector Description

- Connector List

Connector	Function	Note
CN1	VGA connector	D-15F
CN2	HDMI connector	HDMI A Type
CN3	Audio Line-in Jack	ϕ 3.5
CN4	DVI connector	DVI-D(single link)
CN5	Power connector	ϕ 2.5
J4	Power connector	PH 2.0mm.4Pin.180°
J5	LCD Panel for LVDS	PH 2.0mm.32Pin.180°
J6	Key pad connector	PH 2.0mm.10Pin.180°
J7	Inverter connector	PH 2.0mm.8Pin.180°
J8	Speaker connector	PH 2.0mm.4Pin.180°
J9	UART/ABL Connector	PH 2.0mm. 5Pin.180°
J11	IR Connector	PH 2.0mm. 3Pin.180°
J12	Ext. Amp. connector	PH 2.0mm. 5Pin.180°
JP1	3.3V/5V/ 12V selector	PH 2.5mm.2x3Pin.180°
JP2	PWM / Analog selector	PH 2.5mm.3Pin.180°
SW1	Timing selector	PH 2.5mm. 2x4Pin.

Pin definition for connector

CN1:VGA Connector (15pin D-Sub)

Pin	Description	Note
1	VGA R+	Red analog
2	VGA G+	Green analog
3	VGA B+	Blue analog
4	N.C.	Not connect
5	GND	Analog ground
6	VGA R-	Analog ground of RED
7	VGA G-	Analog ground of GREEN
8	VGA B-	Analog ground of BLUE
9	VGA 5V	Power of Cable +5Vdc
10	GND	Analog ground
11	N.C.	Not connect
12	DDC SDA	DDC serial data
13	HSIN	Horizontal synchronous
14	VSIN	Vertical synchronous
15	DDC SCL	DDC serial clock

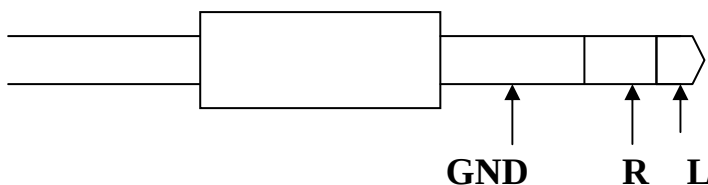
CN2: HDMI Connector

Pin	Description	Note
1	DATA2+	TMDS Data2+
2	GND	Ground
3	DATA2-	TMDS Data2–
4	DATA1+	TMDS Data1+
5	GND	Ground
6	DATA1-	TMDS Data1–
7	DATA0+	TMDS Data0+
8	GND	Ground
9	DATA0-	TMDS Data0–
10	CLK+	TMDS Clock+
11	GND	Ground
12	CLK-	TMDS Clock–
13	CEC	CEC
14	Reserved	Not connect
15	SCL	I ² C serial clock for DDC
16	SDA	I ² C serial data for DDC
17	DDC/CEC	Ground
18	+5V	+5 V Power
19	H-PLUG-DET	Hot Plug Detec

CN4:DVI-D(single link) Connector

Pin	Description	Note
1	DATA2-	TMDS Data 2-
2	DATA2+	TMDS Data 2+
3	DATA2/4 SHLD	Ground
4	DATA4-	Not connect
5	DATA4+	Not connect
6	DDC CLK-	DDC clock
7	DDC DATA	DDC Data
8	A-VSHNC	Not connect
9	DATA1-	TMDS Data 1-
10	DATA1+	TMDS Data 1+
11	DATA1/3 SHLD	Ground
12	DATA3-	Not connect
13	DATA3+	Not connect
14	+5v	Power for monitor when in standby
15	DVI DETECT	DVI_CABLE_DETECT
16	H-PLUG-DET	Hot plug detect
17	DATA0-	TMDS Data 0-
18	DATA0+	TMDS Data 0+
19	DATA0/5 SHLD	Ground
20	DATA5-	Not connect
21	DATA5+	Not connect
22	CLK-SHLD	Ground
23	CLK+	TMDS clock+
24	CLK-	TMDS clock-

CN3 : Audio Line-in connector (phone jack ϕ 3.5)



CN5: Power Connector (2.5 ϕ 3Pin DIP)

Pin	Description	Note
1	12V	Input +12Vdc
2,3	GND	Ground

J4: Connector (2.0 mm 4Pin DIP)

Pin	Description	Note
1,4	DC 12V	Input +12Vdc
2,3	GND	Ground

J5:Panel Connector (2.0 mm 32 Pin DIP)

Pin	Name (8 bit)	Note
1,2,3,4	VDD	Power supply for panel
5,6	GND	Ground
7	RXEIN3-	EvenTx3- Data Pin
8	RXEIN3+	EvenTx3+ Data Pin
9	RXEINC-	EvenTx- Clock Pin
10	RXEINC+	EvenTx+ Clock Pin
11	RXEIN2-	EvenTx2- Data Pin
12	RXEIN2+	EvenTx2+ Data Pin
13	RXEIN1-	EvenTx1- Data Pin
14	RXEIN1+	EvenTx1+ Data Pin
15	RXEIN0-	EvenTx0- Data Pin
16	RXEIN0+	EvenTx0+ Data Pin
17	RXOIN3-	OddTx3- Data Pin
18	RXOIN3+	OddTx3+ Data Pin
19	RXOINC-	OddTx- Clock Pin
20	RXOINC+	OddTx+ Clock Pin
21	RXOIN2-	OddTx2- Data Pin
22	RXOIN2+	OddTx2+ Data Pin
23	RXOIN1-	OddTx1- Data Pin
24	RXOIN1+	OddTx1+ Data Pin
25	RXOIN0-	OddTx0- Data Pin
26	RXOIN0+	OddTx0+ Data Pin
27,28,29,30	N.C.	Not connect
31,32	GND	Ground

J6: Key Board Connector (2.0 mm 10Pin DIP)

Pin	Function	Note
1	SEL+(RIGHT)	Increase the value
2	SEL-(LEFT)	Decrease the value
3	AUTO	Menu Exit or VGA Auto adjusts
4	MENU	Enter the main menu
5	POWER	Power ON/OFF
6	LED-G	Green LED (Power ON)
7	LED-R	Red LED (Power saving)
8	GND	Ground
9	N.C.	Not connect
10	N.C.	Not connect

J7: Inverter Connector (2.0mm 8 Pin DIP)

Pin	Function	Note
1,2	12V Input	Power supply of +12Vdc
4,6	GND	Ground
3	Brightness control	0V – 5V Analog or PWM
5	ON/OFF Control	5V ON;0V OFF
7,8	5V	+5Vdc

Note : 2.0mm 5 pin connector(Pin1~5) is used for standard 12V input
And stand alone Inverter .

2.0mm 3 pin connector (Pin6~8) is used for 2-in-1 power supply
with 5V input .

J8: Audio Speaker Connector (2.0 mm 4Pin DIP)

Pin	Description	Note
1	L-	Audio Left-
2	L+	Audio Left+
3	R-	Audio Right-
4	R+	Audio Right+

J9: Connector (2.0 mm 5Pin DIP)

Pin	Description	Note
1	5V	Output +5Vdc
2	ABL	ADC Light Sensor option
3	Tx	UART TX
4	Rx	UART RX
5	GND	Ground

J11: Connector (2.0 mm 3Pin DIP)

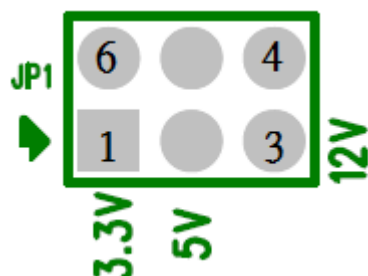
Pin	Description	Note
1	5V	Output +5Vdc
2	IR	Interrupt input
3	GND	Ground

J12: Connector (2.0 mm 5Pin DIP)

Pin	Description	Note
1	L_10W	Line out Left
2	R_10W	Line out Right
3	Mute_AMP	Control AMP Mute
4	STB_AMP	Control AMP Power
5	GND	Ground

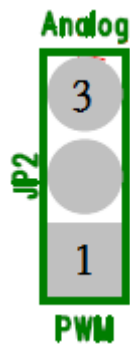
JP1: 5V/3.3V/12V Selector (2.5 mm 2x3 Pin DIP)

Pin	Description	Note
1- 6	3.3V	Power supply of +3.3Vdc
2 - 5	5V	Power supply of +5Vdc
3 - 4	12V	Power supply of +12Vdc



JP2:PWM / Analog selector (2.5 mm 3Pin DIP)

Pin	Description	Note
1- 2	PWM	Inverter PWM Control
2 - 3	Analog	Inverter DC Level Control



SW1: F/W Timing selector (2.5 mm 2*4Pin SMT)

Pin ON	Description	Note
0	640*480	
1	800*600	
2	1024*768	
1,2	1280*800	
3	1280*1024	
1,3	1366*768	
2,3	1920*1080	
1,2,3	1920*1200	
4	800*480	
1,4	1024*600	
2,4	1920*720	

Board Dimension :113mm*95mm

Screw holes*4:3.5mm

