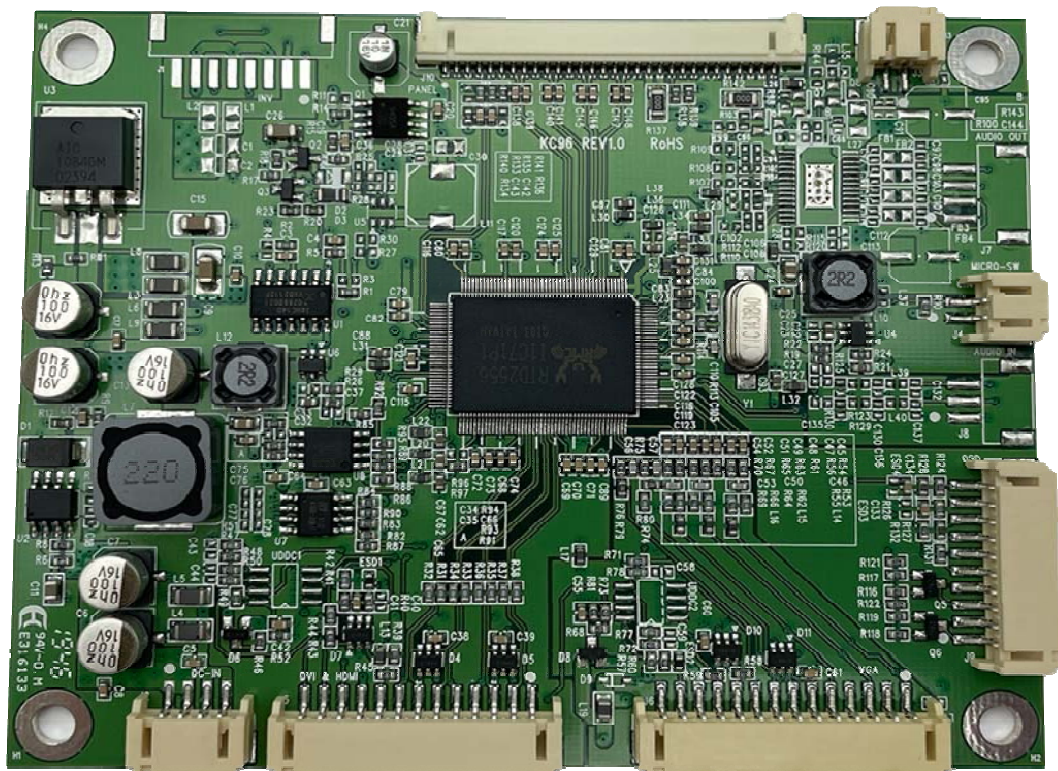


KC96



A/D board option

Mode	Teleview part no.	Description
1	C96--556A00--	VGA+HDMI, audio
2	C96--556N00--	VGA+HDMI, No audio

Features

- Compatible from VGA up to 1920x1200 resolution 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(14-pin 2.0mm connector).
- Automatic detection of separate synchronize and composite synchronizes of VGA.
- Support Audio Amplifier function with stereophonic output connector (option).
- Support Digital Signal input (13 pin 2.0mm connector)
- Micro switch detect function for auto-on/off power save . Detect by ground connection to insure the life of the micro switch .
- Full SMD / Slim type (Less than 7.5mm height) specially suitable for KVM .
- Support non-linear scaling from 4:3 to 16:9 or 16:9 to 4:3
- **Support 8-bit output through either eDP**
- **Support 4 lane eDP HBR**
- Meet RoHS requirement.

Electrical Specification

- Power supply
 - Input for A/D board : 12V DC 3A
 - Output for eDP Panel : 3.3V / 5V
 - Output for other board : 5V
- Power consumption (Panel / Inverter not included)
 - Power saving / off : <0.15W / <0.12W
- Audio output
 - Speaker : 8Ω , 2W
- Environment
 - Operating temperature /humidity : 0℃ ~ 50℃ / 0 ~ 80% (Non- condensing)
 - Storage temperature /humidity : -40℃ ~ 70℃ / 0 ~ 90%

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
J6	VGA input connector	2.0mm. 14Pin. 90°
J5	HDMI input connector	2.0mm. 13Pin. 90°
J2	Power input connector	2.0mm. 4Pin. 90°
J10	LCD Panel for eDP	1.25mm. 30Pin.90°
J9	Key pad connector	2.0mm. 10Pin.90°
J1	Inverter connector	2.0mm .8Pin.90°
J7	Speaker connector	2.0mm. 4Pin. 90°
J8	Audio line IN	2.0mm. 3Pin. 90°
J4	Micro SW connector	2.0mm. 2Pin. 90°
J3	5V output connector	2.0mm. 2Pin. 90°

Pin definition for connector

J1: Inverter Connector (2.0mm 8 Pin SMD)

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

J9: Key Board Connector (2.0 mm 10Pin SMD)

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

J7: Audio speaker connector (2.0 mm 4Pin SMD)

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

J8: Audio line-in connector (2.0 mm 3Pin SMD)

Pin	Description	Note
1	GND	Ground
2	R	Line In Right
3	L	Line out Left

J2: Power input connector (2.0mm 4Pin SMD)

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

J3: 5V output (2.0 mm 2Pin SMD)

Pin	Description	Note
1	GND	Ground
2	5V	+5Vdc

J4: Micro SW connector (2.0 mm 2Pin SMD)

Pin	Description	Note
1	GND	Ground
2	SW	Switch backlight off

J6: VGA input connector (2.0 mm 14Pin SMD)

Pin	Description	Note
1	RED	Red analog
2	GND	Ground
3	GREEN	Green analog
4	GND	Ground
5	BLUE	Blue analog
6	GND	Ground
7	H. SYNC	Horizontal synchronous
8	V. SYNC	Vertical synchronous
9	GND	Ground
10	DDC SDA	DDC serial data
11	DDC SCL	DDC serial clock
12	VGA_5V	Power of Cable +5Vdc
13	DET_VGA	VGA cable det
14	NC	Not connect

J5: Digital input connector (2.0 mm 13Pin SMD)

Pin	Description	Note
1	CLK-	TMDS Clock–
2	CLK+	TMDS Clock+
3	DATA0-	TMDS Data0–
4	DATA0+	TMDS Data0+
5	DATA1-	TMDS Data1–
6	DATA1+	TMDS Data1+
7	DATA2-	TMDS Data2–
8	DATA2+	TMDS Data2+
9	GND	Ground
10	+5V	Power for monitor when in standby
11	DDC2 SDA	I²C serial data for DDC
12	DDC2 SCL	I²C serial clock for DDC
13	DET	Cable Detect

J10: Panel connector (1.25 mm 30 Pin SMD)

Pin	Name	Note
1,2	NC	No contact
3	GND	Ground
4	TXAUXN R	Complement signal Auxiliary Channel
5	TXAUXP R	True signal Auxiliary Channel
6	GND	Ground
7	TX0N R	Complement signal link lane0
8	TX0P R	True signal link lane0
9	GND	Ground
10	TX1N R	Complement signal link lane1
11	TX1P R	True signal link lane1
12	GND	Ground
13	TX2N R	Complement signal link lane2
14	TX2P R	True signal link lane2
15	GND	Ground
16	TX3N R	Complement signal link lane3
17	TX3P R	True signal link lane3
18	GND	Ground
19,20	3.3V or 5V	+3.3V or +5V Power supply
21	DP_HPD	HPD Signal in
22	BKLT_EN	Backlight enable
23	BKLT_ADJ	Backlight Adjustment
24,25	GND	Ground
26,27,28,29	12V	+12V Power supply
30	NC	No contact

Board Dimension :110mm*90mm

Screw holes*4:4.3mm

