

KC36 Board Specification Sheet

Model No. KC36 (Part No.:C36-C280ND0AD)

Main Feature:

- ⊙ Auto detection of separate Sync. signal and composite Sync. signal of VGA
- ⊙ Support VGA analog standard input signal (15-pin D-Sub connectors)
- ⊙ Supply single pixel(24bits) or dual pixel(48bits) digital RGB output
- ⊙ Support vertical refresh rate up to 75Hz VESA standard timing
- ⊙ Compatible with VGA up to SXGA (1280x1024) LCD panel
- ⊙ DC 12V input or matching P/I power board (Optional)
- ⊙ Operating temperature : 0 °C to +50 °C
- ⊙ Storage temperature : -40 °C to +60 °C
- ⊙ Support RS232 (Optional)
- ⊙ RoHS compliant

Support Timing Table:

Mode	Resolution	H Frequency (KHz)	V Frequency (Hz)
1	640*480@60	31.469	59.940
2	640*480@75	37.500	75
3	720*400@70	31.469	70.087
4	800*600@60	37.879	60.317
5	800*600@75	46.875	75
6	1024*768@60	48.363	60.004
7	1024*768@70	56.476	70.069
8	1024*768@75	60.023	75.029
9	1280*720@60	44.62	59.81
10	1280*1024@60	63.980	60
11	1280*1024@75	79.976	75.025
12	1440*900@60	55.935	59.887
13	1680*1050@60	65.3	60
14	1920*1080@50	56.25	50
15	1920*1080@60	66.6	60

Connector Description:

Connector List:

Connector	Description	Note
CN1	VGA Connector	D-15F
CN2	Power Connector	φ 2.5
CON1	RS232 Connector	PH 2.0mm. 5Pin.90°
CON2	12V Input Connector	PH 2.0mm. 4Pin.180°
CON3	5V Output Connector	PH 2.0mm. 2Pin.90°
CON4	Panel Connector	PH 2.0mm 2x16Pin.90°
CON5	Key Pad Connector	PH 2.0mm. 10Pin.180°
CON6	Inverter Connector	PH 2.0mm. 8Pin.90°

JP1	Panel 3.3V/5V Selector	PH 2.5mm. 3Pin.180°
JP2	Analog/PWM Selector	PH 2.5mm. 3Pin.180°

Pin Definition of 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: Power Connector (2.5 ϕ 3Pin DIP):

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

CON1: RS232 Connector (2.0 mm 5Pin DIP)

Pin	Description	Note
1	5V	
2	Reserved	
3	Tx	
4	Rx	
5	GND	

CON2: 12V Input Connector (2.0 mm 4Pin DIP)

Pin	Description	Note
1,4	+12V	
2,3	GND	

CON3: 5V Output Connector (2.0 mm 2Pin DIP)

Pin	Description	Note
1	+5V	
2	GND	

CON4: Panel Connector (2.0 mm 2*16Pin DIP):

Pin	Description	Note
1,2,3,4	VDD	
5,6,7,8	GND	
9	RXEIN3-	
10	RXEIN3+	
11	RXECLKIN-	
12	RXECLKIN+	
13	RXEIN2-	
14	RXEIN2+	
15	RXEIN1-	
16	RXEIN1+	
17	RXEIN0-	
18	RXEIN0+	
19	GND	
20	GND	
21	RXOIN3-	
22	RXOIN3+	
23	RXECLKIN-	
24	RXECLKIN+	
25	RXEIN2-	
26	RXEIN2+	
27	RXEIN1-	
28	RXEIN1+	
29	RXEIN0-	
30	RXEIN0+	
31	GND	
32	GND	

CON5: Key Pad Connector (2.0 mm 10Pin DIP):

Pin	Description	Note
1	POWER	
2	LED-G	Green LED (Power ON)
3	LED-R	Red LED (Power saving)
4	GND	
5	MENU	

6	SEL+(RIGHT)	
7	SEL-(LEFT)	
8	AUTO/EXIT	
9	N.C.	
10	N.C.	

CON6: Inverter Connector (2.0mm 8 Pin DIP):

Pin	Description	Note
1,2	12V Input	
4,6	GND	
3	Brightness Control	DC 0V(Max)-5V(Min) or PWM10-100%
5	ON/OFF Control	5V ON;0V OFF
7,8	5V	

Note : 2.0mm 5 pin connector(Pin1~5) is used on standard 12V input and standalone Inverter .
2.0mm 3 pin connector (Pin6~8) is used on 2-in-1 power supply with 5V input .

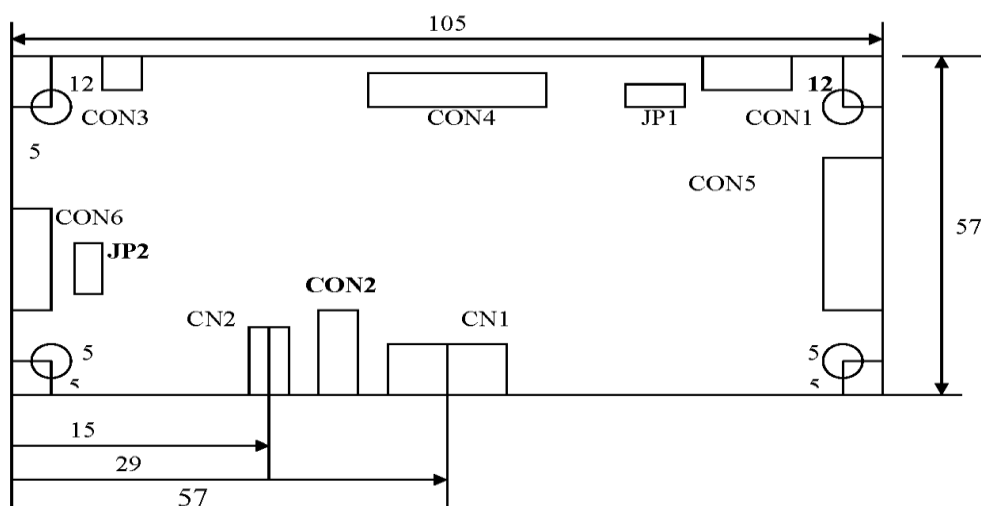
JP1: Panel 3.3V/5V Selector (2.5 mm 3 Pin DIP):

Pin	Description	Note
1 - 2	5V	Power supply of +5VDC
2 - 3	3.3V	Power supply of +3.3VDC

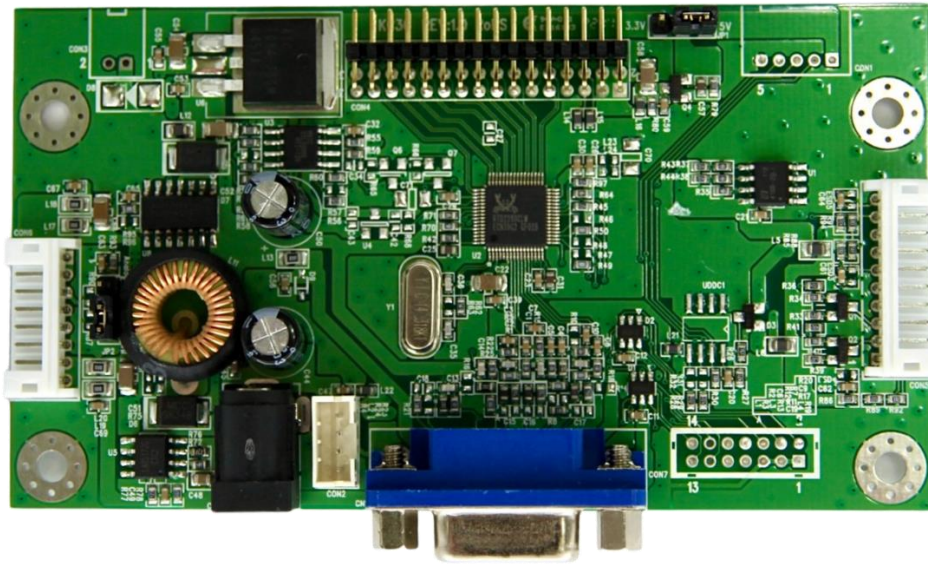
JP2: Analog /PWM (2.5 mm 3Pin DIP):

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

Board Dimension :105mm*57mm



Board Photo:



※Specifications and product design are subject to change without notice.