

# Specification

For

Approve

**UE6802 V1.0**

Customer	
Date	
Signature	

Approved by	
Date	

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## GENERAL DESCRIPTION

- ◆ HDMI AND VGA AND VIDEO INPUT SYSTEM

$f_H$  : 48.1 KHz  $f_H$  :37.9KHz  $f_H$  :35.1KHz  $f_H$  :31.5KHz

$f_V$  : 85Hz  $f_V$  : 75Hz  $f_V$  : 72Hz  $f_V$  : 60 Hz  $f_V$  : 56 Hz

*DOT CLK: 50Mhz DOT CLK: 40Mhz DOT CLK: 36Mhz DOT CLK: 25.175Mhz*

- ◆ POWER SOURCE DC 12V
- ◆ POWER CONSUMPTION 400 mA , 4.8W Max.
- ◆ OPERATING TEMPERATURE -20°C ~ 70°C
- ◆ STORAGE TEMPERATURE -30°C ~ 80°C
- ◆ WEIGHT TBD g

## FEATURES

- ◆ 1080p 1080i 720p 576p 576i 480p 480i INPUTS
- ◆ VGA OR SVGA INPUTS
- ◆ 6-BIT RGB OUTPUT
- ◆ CONVENIENTLY ADJUST IMAGE BY OPERATING KEYBOARD
- ◆ SUPPORT INTERGRATED PLL TECHNOLOGY
- ◆ LOW POWER COMSUMPTION

## APPLICATION SCOPE

- SECURITY
- PC MONITOR
- INDUSTRY CONTROL MONITOR

## DRIVER BOARD INTRODUCTION

### 1. Brief Diagram (Refer Appendix Page For Details)

### 2. Port Definition

- a) CN1----- Power input port ( DC12V )
- b) CN2----- VIDEO& AUDIO input port;
- c) CN3----- Analog VGA input port;
- d) JX1 ----- HDMI input port;
- e) CN4 ----- Keyboard operation port;
- f) CN5----- ISP port;
- g) CN6 ----- Connection port of SPEAKER OUT;
- h) CN10-----Connection port of Driver Board with LCD connector (LVDS);
- i) JP3-----Connection port of Driver Board with LCD connector (TTL);

\* All ports define square pad as the first position in this specification.

### 3. PIN ASSIGNMENT

CN1 : Power input port ( Molex 53261-0419 or compatibility )

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	+12V IN	3	GND		
2	+12V IN	4	GND		

**CN2: VIDEO AND AUDIO IN (Molex 53261-0619 or compatibility)**

Pin NO	DEF.	Pin NO	DEF.
1	AV_AUDIO IN_L	4	CVBS IN 1
2	AV_AUDIO IN_R	5	GND
3	GND	6	CVBS IN 2

**CN3: 12PIN VGA Connector (Molex 53261-1219 or compatibility)**

Pin NO	DEF	Pin NO	DEF	Pin NO	DEF	Pin NO	DEF
1	SCL	4	BLUE	7	GND	10	HSYNC
2	SDA	5	GND	8	RED	11	VSYNC
3	GND	6	GREEN	9	GND	12	GND

**JX1: HDMI INPUT Connector (Type 1747981-1 or compatibility)**

Pin NO	DEF	Pin NO	DEF	Pin NO	DEF	Pin NO	DEF
1	DATA2+	6	DATA1-	11	GND	16	SDA
2	GND	7	DATA0+	12	CLK-	17	GND
3	DATA2-	8	GND	13	CEC	18	+5V
4	DATA1+	9	DATA1-	14	NC	19	HPD
5	GND	10	CLK+	15	SCL		

**CN4: Key Connector (Molex 53261-0819 or compatibility)**

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	LED_R	4	ADC2	7	GND
2	LED_G	5	GND	8	+5V
3	ADC1	6	IR		

**CN5: ISP Connector (Molex 53261-0419 or compatibility)**

Pin NO	DEF.	Pin NO	DEF.
1	WP	3	ISP SDA
2	ISP SCL	4	GND

**CN6: SPEAKER OUT Connector (Molex 53261-0419 or compatibility)**

Pin NO	DEF.	Pin NO	DEF.
1	R OUT+	3	L OUT+
2	R OUT-	4	L OUT-

**JP3: TTL Connector for UE043WV-AH40-L005 & UE050WQ-RC40-L021**

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	LEDK	14	G1	27	B6	40	YU
2	LEDA	15	G2	28	B7		
3	GND	16	G3	29	GND		

4	VDD	17	G4	30	CLK		
5	R0	18	G5	31	DISP		
6	R1	19	G6	32	HSYNC		
7	R2	20	G7	33	VSYNC		
8	R3	21	B0	34	DEN		
9	R4	22	B1	35	NC		
10	R5	23	B2	36	GND		
11	R6	24	B3	37	XR		
12	R7	25	B4	38	YD		
13	G0	26	B5	39	XL		

**CN10: LVDS Connector for UE101WX-RB40-L017**

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	P_VCC	9	RXO1-	17	RXO3-	25	GND
2	P_VCC	10	RXO1+	18	RXO3+	26	GND
3	P_VCC	11	RXO2-	19	RXE0-	27	RXEC-
4	GND	12	RXO2+	20	RXE0+	28	RXEC+
5	GND	13	GND	21	RXE1-	29	RXE3-
6	GND	14	GND	22	RXE1+	30	RXE3+
7	RXO0-	15	RXOC-	23	RXE2-		
8	RXO0+	16	RXOC+	24	RXE2+		

CN7: Inverter Connector (JST B6B-PH-K-S or compatibility)

Pin NO	DEF.	Pin NO	DEF.	Pin NO	DEF.
1	GND	3	ADJ	5	VCC
2	GND	4	ON/OFF	6	VCC





