NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: **NVB604**

Version	1.0
Engineering	
Date	2019/05/07

Web: www.nextvisiondisplay.com

Info: technical@nextvisiondisplay.com

Product Specification

1. General Description

- Inverter can supply PWM or Digital Brightness control.
- Small form factor: 130x80 mm.
- Full CRT multi-sync monitor compatibility.
- Multi-sync capability , compatible standard DOS,VGA, SVGA, XGA, SXGA, WSXGA, WSXGA+, UXGA and WUXGA VESA timing.
- True color (16.7M) data processing and display driving.
- Single control operated On-Screen-Display(hereafter“OSD”)user interface.
- Multi language support (2 Language).
- Full control of all relevant display and interface parameter via OSD.
- VESA DDC 1/2B compliant.
- Compatible with VESA DPMS power saving modes.
- Multi-standard color (PAL/Secam/NTSC).
- Accessories: LVDS Cable x 1, Backlight Cable x 1, OSD board x 1

2. Reference Data

Parameter		MIN	TYP	MAX	Unit
Power Requirement	+12V DC (*Note1)	10.8	12	13.2	V
	Input Current (*Note1)	-	3.5	4.0	A
Frequency	Horizontal sync	30	-	60	KHz
	Vertical sync	56	-	75	
Environmental	Storage Temperature	-30 ~ +85			◦ C
	Operating Temperature	-20 ~ +70			
Overall dimensions	Length	130			mm
	Width	80			
	Depth (from PCB bottom)	14.2			
Output for Panel	Panel VCC		3.3		V
Output for Backlight	Panel VLED		12		V
Output resolution		1024 x 768			pixel
Number of colors		16.7M (*Note2)			colors

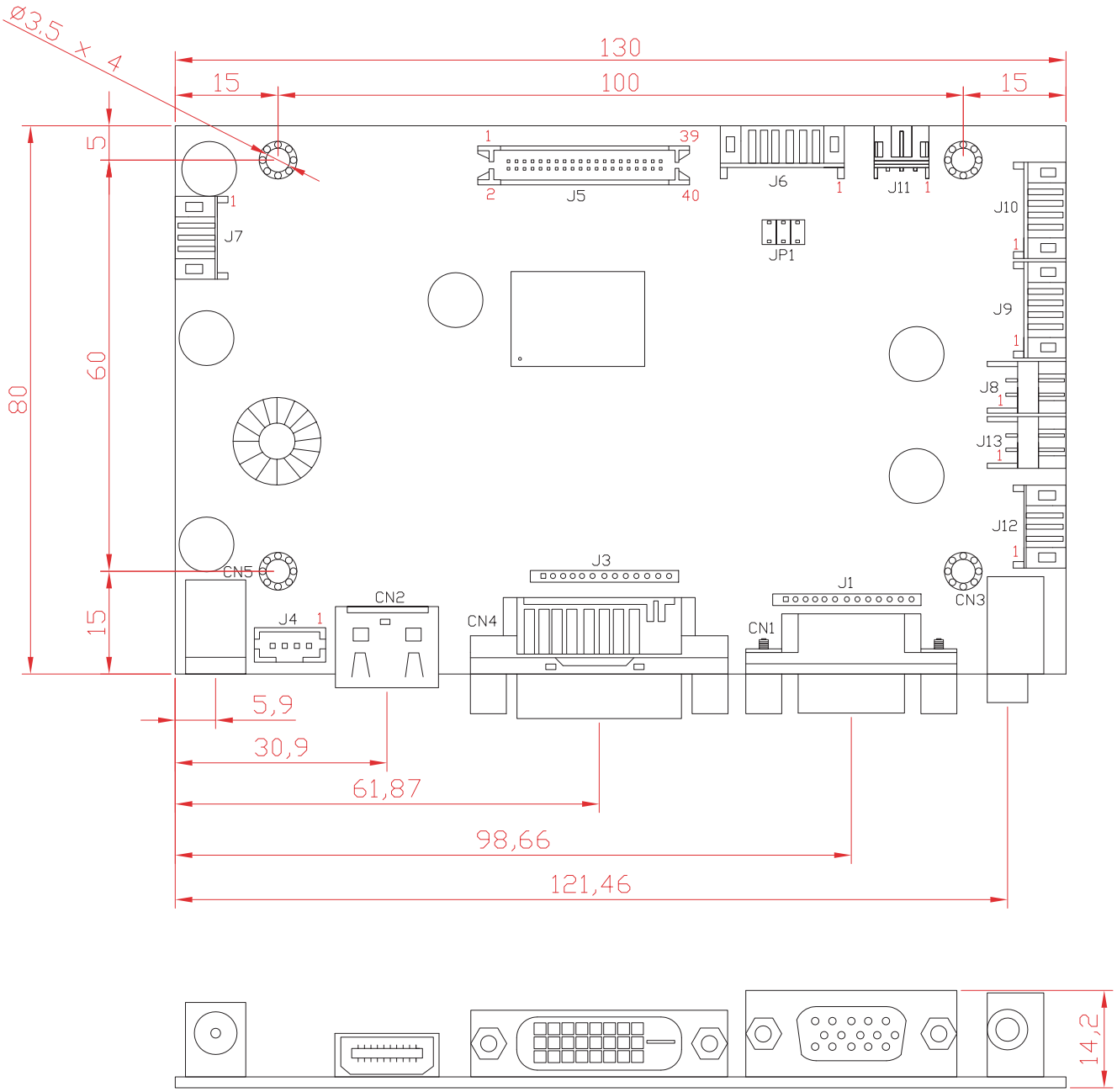
Note 1: Power Input.
Note 2: 24Bit LVDS

4. Mechanical Structure

PCB Length: 130mm

PCB Width: 80mm

PCB Depth + the height of the highest part: 14.2mm



5. Interface List

Sequence Number	Description of function
CN1	15 PIN D-Sub (VGA)
CN2	HDMI
CN3	Audio
CN4	DVI-D
CN5	Power Input (DC Jack)

Sequence Number	Description of function
J4	Power Input (Wafer)
J5	LVDS connector
J6	OSD connector
J7	Backlight connector
J8	Speaker output (Left)
J9	UART / Light Sensor Connector
J10	Power Output (5/12V) (Max 500mA)
J11	IR connector
J13	Speaker output (Right)
JP1	Panel Vcc Jump (3.3/5/12V)

5.1 Definition of main interface

J4 JST PHR-4 (2.0 Pitch) or compatible.

Pin #	Defintion	Description
1	GND	Ground
2	GND	Ground
3	VDD	+12V input
4	VDD	+12V input

J5 HRS DF13-40DS-1.25V or compatible.

Description	Defintion	Pin #		Defintion	Description
LVDS even 0-	E0-	2	1	VCC	Power supply
LVDS even 0+	E0+	4	3	VCC	Power supply
LVDS even 1-	E1-	6	5	GND	Ground
LVDS even 1+	E1+	8	7	GND	Ground
LVDS even 2-	E2-	10	9	NC	-
LVDS even 2+	E2+	12	11	NC	-
LVDS even clock-	EC-	14	13	GND	Ground
LVDS even clock+	EC+	16	15	NC	-
LVDS even 3-	E3-	18	17	NC	-
LVDS even 3+	E3+	20	19	GND	Ground
LVDS odd 0-	O0-	22	21	GND	Ground
LVDS odd 0+	O0+	24	23	GND	Ground
LVDS odd 1-	O1-	26	25	NC	-
LVDS odd 1+	O1+	28	27	GND	Ground
LVDS odd 2-	O2-	30	29	NC	-
LVDS odd 2+	O2+	32	31	GND	Ground
LVDS odd clock-	OC-	34	33	GND	Ground
LVDS odd clock+	OC+	36	35	GND	Ground
LVDS odd 3-	O3-	38	37	NC	-
LVDS odd 3+	O3+	40	39	NC	-

J6 JST PHR-8 (2.0 Pitch) or compatible.

Pin #	Defintion	Description
1	KEY1	Down
2	KEY2	Up
3	KEY3	Power ON / OFF
4	KEY4	Menu Select
5	KEY5	Source Select
6	Red LED	Standby LED
7	Green LED	Active LED
8	GND	Ground

J7 JST PHR-5 (2.0 Pitch) or compatible.

Pin #	Defintion	Description
1	VDD	+12V
2	GND	Ground
3	ADJ	Adjust Digital Brightness Control / PWM
4	GND	Ground
5	ON/OFF	ON/OFF control ON=5V；OFF=0V

J8 JST S2B-XH-A or compatible.

Pin #	Defintion	Description
1	Lout P	Speaker Lout P
2	Lout N	Speaker Lout N

J9 JST PHR-6 (2.0 Pitch) or compatible.

Pin #	Defintion	Description
1	V5A	
2	V5A	
3	KEY2	
4	UART_TX	
5	UART_RX	
6	GND	

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J10 JST PHR-6 (2.0 Pitch) or compatible.

Pin #	Defintion	Description
1	FIX 5V	LCD control board will stop offer 5V, when the OSD power off
2	FIX 5V	
3	CUT 12V	LCD control board will stop offer 12V, when the OSD power off
4	CUT 12V	
5	GND	Ground
6	GND	Ground

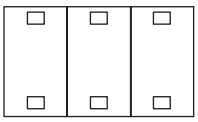
J11 JST PHR-3 (2.0 Pitch) or compatible.

Pin #	Defintion	Description
1	5V	+5V input
2	IR	IR
3	GND	Ground

J13 JST S2B-XH-A or compatible.

Pin #	Defintion	Description
1	Rout P	Speaker Lout P
2	Rout N	Speaker Lout N

JP1 Panel VCC select



3.3V 5V 12V