ADP-3460

LVDS Convert Module

User's Manual

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Packing List:

Please check the package content before you starting using the board.

1 x ADP-3460 LVDS Convert Module

1 x CN_DP Cable
(OALDP2T(B)-L12 / 1040647)

1 x SMBus Cable(optional)
(OALSMBUS-20 / 1040636)
(For ADP-3460)

1 x Power Cable
(OAL4P-XH-20 / 1040635)

1 x SMBus Cable(optional)
(OALSMBUSE-20 / 1040637)
(For 3.5" and Pico motherboard)

1. <Product Specification>

Mechanical & Environmental

Controller	PTN3460
Dimensions	41.92 x 33.23 mm
Temperature	Operating within 0~60 centigrade
Relative Humidity	10%~90%, non-condensing
Ordering Code	**ADP-3460:**DisplayPort to LVDS Module

*Applied for COMMELL motherboards only.

*Please give us 2nd LCD panel datasheet and model name of motherboard before ordering.

2. < Connector Location and Reference >
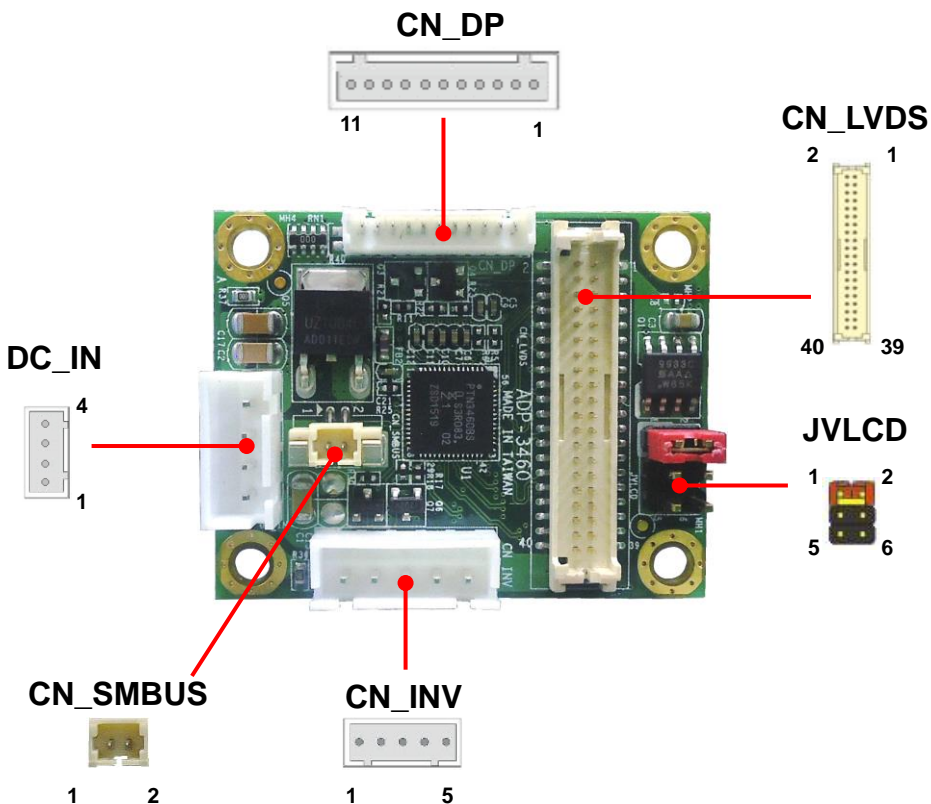
CN_DP: DP to LVDS 11-pin connector

Pin	Signal
1	DP_0P
2	DP_0N
3	GND
4	DP_1P
5	DP_1N
6	GND
7	AUX_P
8	AUX_N
9	GND
10	HPD
11	3.3V

CN_LVDS:LVDS 40-pin connector (Model: HIROSE DF13-40DP-1.25V compatible)

Pin	Signal	Pin	Signal
1	Set by JVLCD	2	Set by JVLCD
3	GND	4	Detect (Active low)
5	B_LVDS_0-	6	A_LVDS_0-
7	B_LVDS_0+	8	A_LVDS_0+
9	GND	10	GND
11	B_LVDS_1-	12	A_LVDS_1-
13	B_LVDS_1+	14	A_LVDS_1+
15	GND	16	GND
17	B_LVDS_2-	18	A_LVDS_2-
19	B_LVDS_2+	20	A_LVDS_2+
21	GND	22	GND
23	B_LVDS_3-	24	A_LVDS_CLK-
25	B_LVDS_3+	26	A_LVDS_CLK+
27	GND	28	GND
29	B_LVDS_CLK-	30	A_LVDS_3-
31	B_LVDS_CLK+	32	A_LVDS_3+
33	GND	34	GND
35	NC	36	LVDS_DDCSCL
37	NC	38	LVDS_DDCSDA
39	NC	40	NC

Pin4 only need to be connected to GND

CN_INV: LVDS 5-pin Backlight power connector

Pin	Signal
1	12V
2	Backlight Control
3	5V
4	GND
5	Enable Backlight

Backlight Control can program by SMBus, so you need to design software to change

registers.

JVLCD: LVDS panel power select jumper

Jumper settings	Function
1-2	3.3V (Default)
2-3	5V
5-6	12V

CN_SMBUS: SMBus 2-pin connector

Pin	Signal
1	SMBCLK
2	SMBDAT

DC_IN: Power 4-pin connector

Pin	Signal
1	12V
2	GND
3	GND
4	5V

3. < Install ADP3460 >

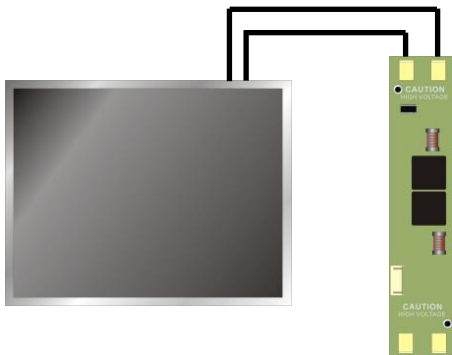1. Preparing the **Compatible Motherboard, ADP-3460**, **Power supply**, **LCD panel** and the **backlight inverter**.

Power Supply
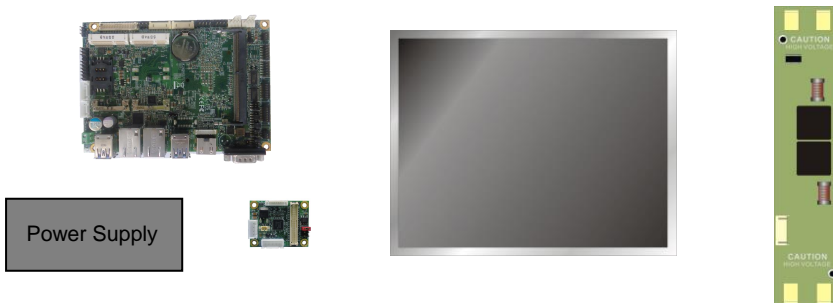
2. Please check the datasheet of the panel to see the voltage of the panel, and set the jumper **JVLCD** to +12V or +5V or +3.3V.

JVLCD

1   2

5   6
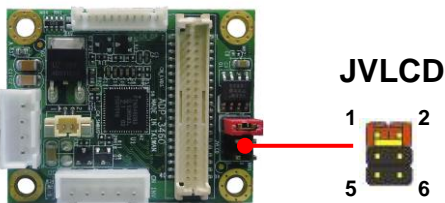
3. You would need a LVDS type cable.

Panel side   **Board side**

For sample illustrator only

4. Connect LCD panel to the backlight inverter.

5. Connect LCD panel to ADP3460
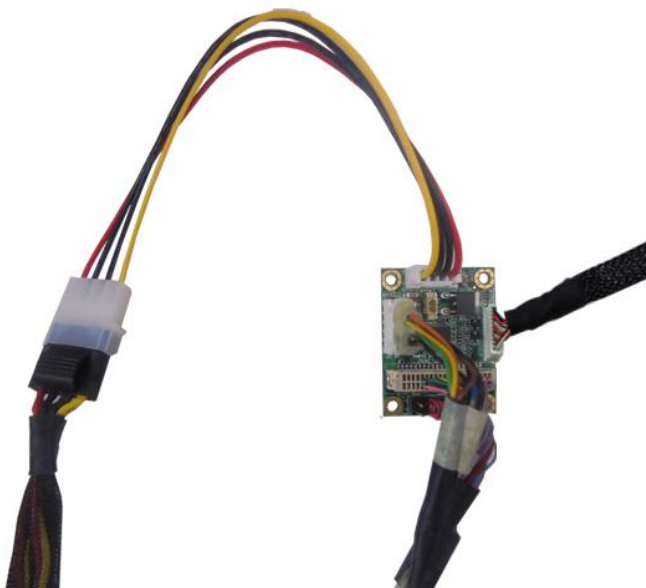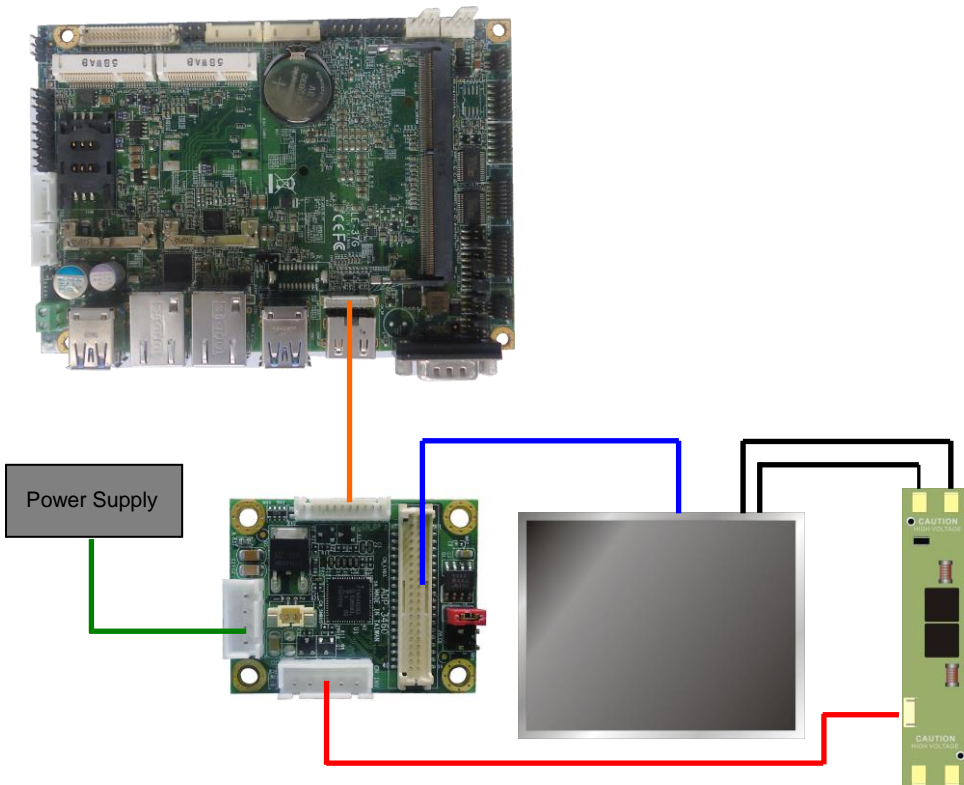
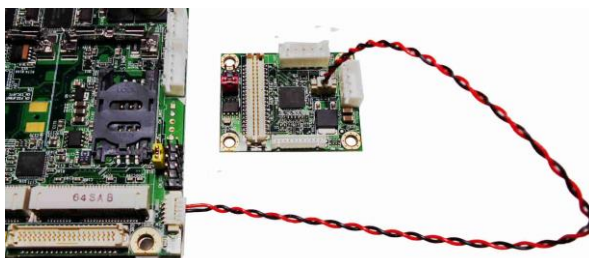6. Connect backlight inverter to ADP3460

7. Connect Motherboard to ADP3460
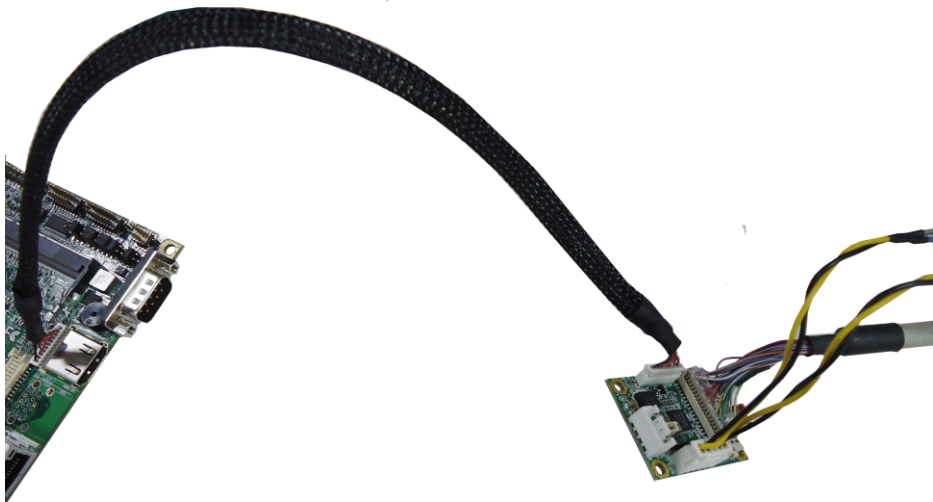
8. Connect 4 pin power connector to ADP3460

9. To connect all of the devices well.

Note: If you want to change 2nd LCD panel color or LVDS Bus in BIOS Setup menu, you have to connect SMBus cable to motherboard (CN_SMBUS).

Contact information

Any advice or comment about our products and service, or anything we can help you please don't hesitate to contact with us. We will do our best to support you for your products, projects and business.

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