

**DisplayPort to LVDS converter board (For iEi IDP connector),
RoHs**

DP-LVDS-R10

Quick Installation Guide

Version 1.0

Apr. 19, 2013

Package Contents

DP-LVDS-R10 package includes the following items:

- 1 x DP-LVDS adapter card
- 1 x Internal DisplayPort cable
- 1 x QIG (Quick Installation Guide)



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Features:

- DisplayPort to LVDS output
- Resolution support up to 1920x1200

Specifications:

- Display IC: Chronitel – CH7511B
- Internal DisplayPort Connector: 1 x 20-pin (2x10) box header
- Humidity: Operation: 5% ~ 95%, non-condensing
- Temperature: -10°C ~ 60°C
- Dimension: 60 mm x 50 mm
- Weight: 70g

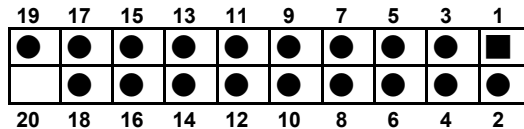
Ordering Information

- **DP-LVDS-R10**: DisplayPort to LVDS converter board (For iEi IDP connector)

Table of Connectors

LABEL	FUNCTION
CN1	iEi Internal Display Port
PWR2	External Power Connector
LVDS2	LVDS Connector
INV2	LVDS Panel Voltage Supply
JP2	LVDS Voltage Selection
SW1	LVDS Resolution Selection
SW2	LVDS Backlight -
SW3	LVDS Backlight +
SW4	LVDS Power Switch

CN1 : iEi Internal Display Port			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	2	DPD_OB_LANE1_N
3	DPD_OB_LANE1_P	4	GND
5	DPD_OB_LANE3_N	6	DPD_OB_LANE3_P
7	GND	8	AUX_CTRL_DET_D
9	GND	10	DDI1_HPD#
11	DPD_AUX_CTRL_P2	12	DPD_AUX_CTRL_N2
13	GND	14	DPD_OB_LANE2_P
15	DPD_OB_LANE2_N	16	GND
17	DPD_OB_LANE0_P	18	DPD_OB_LANE0_N
19	+3.3V		



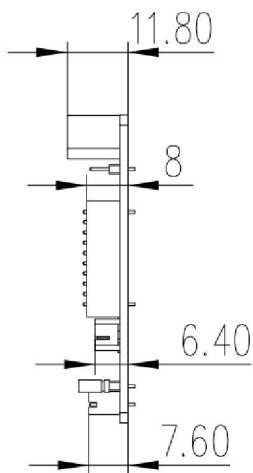
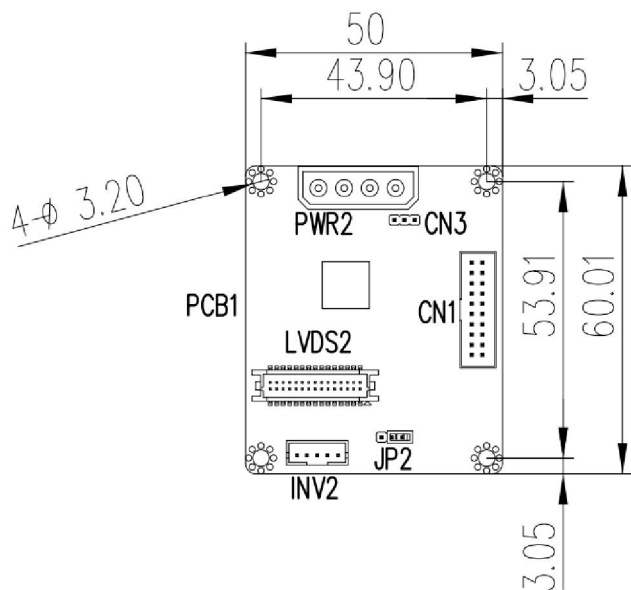
INV2 : 5-pin Header Inverter Connector	
PIN NO.	DESCRIPTION
1	LCD_BKLTCTL
2	GROUND
3	+12V
4	GROUND
5	BACKLIGHT ENABLE

LVDS2 Panel type Selection			
SW1 4321	EDID Resolution	Color Depth	Channel
0000	800 x 600 @ 60Hz	18-bit	Single
0001	1024 x 768 @ 60Hz	18-bit	Single
0010	1024 x 768 @ 60Hz	24-bit	Single
0011	1280 x 768 @ 60Hz	18-bit	Single
0100	1280 x 800 @ 60Hz	18-bit	Single
0101	1280 x 960 @ 60Hz	18-bit	Single
0110	1280 x 1024 @ 60Hz	24-bit	Dual
0111	1366 x 768 @ 60Hz	18-bit	Single
1000	1366 x 768 @ 60Hz	24-bit	Single
1001	1440 x 900 @ 60Hz	24-bit	Dual
1010	1440 x 1050 @ 60Hz	24-bit	Dual
1011	1600 x 900 @ 60Hz	24-bit	Dual
1100	1680 x 1050 @ 60Hz	24-bit	Dual
1101	1600 x 1200 @ 60Hz	24-bit	Dual
1110	1920 x 1080 @ 60Hz	24-bit	Dual
1111	1920 x 1200 @ 60Hz	24-bit	Dual

PWR2: LVDS Input Connector	
PIN NO.	DESCRIPTION
1	+5V
2	GND
3	GND
4	+12V

JP2: LVDS1 Voltage Selection	
PIN NO.	DESCRIPTION
Short 1-2	+3.3V LVDS(default)
Short 2-3	+5V LVDS

Board Layout: Jumper and Connector Locations



(Unit:mm)