

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

# **DP-LVDS-R10**

## **Quick Installation Guide**

Version 1.0

Sep. 30, 2014

### **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: Chrontel – 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

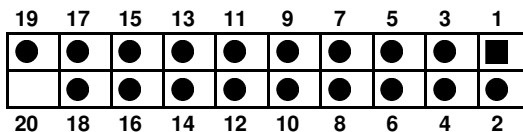
## Ordering Information

- **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	HPDET	2	GND
3	AUX_P	4	GND
5	AUX_N	6	GND
7	GND	8	N/C
9	N/C	10	N/C
11	N/C	12	GND
13	GND	14	D1_P
15	D0_P	16	D1_N
17	D0_N	18	N/C
19	+3.3V		



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

<b>LVDS2: LVDS Connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	GND	2	GND
3	A_Y0+	4	A_Y0-
5	A_Y1+	6	A_Y1-
7	A_Y2+	8	A_Y2-
9	A_CK+	10	A_CK-
11	A_Y3+	12	A_Y3-
13	GND	14	GND
15	B_Y0+	16	B_Y0-
17	B_Y1+	18	B_Y1-
19	B_Y2+	20	B_Y2-
21	B_CK+	22	B_CK-
23	B_Y3+	24	B_Y3-
25	GND	26	GND
27	VCC3	28	VCC3
29	VCC3	30	VCC3

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

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

<b>LVDS2 Panel type Selection (0 : on , 1 : off)</b>			
<b>SW1 4321</b>	<b>EDID Resolution</b>	<b>Color Depth</b>	<b>Channel</b>
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

