

**eDP to 24-bit Dual-channel LVDS Converter Board  
(for iEi Display Module Slot)  
RoHS**

**iDPM-LVDS-R10**  
**Quick Installation Guide**  
Version 1.0

August 8, 2022

**Package Contents**

iDPM-LVDS-R10 package includes the following items:

- 1 x iDPM-LVDS converter board
- 1 x QIG (Quick Installation Guide)



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## Features:

- DisplayPort to LVDS output
- Small and light, easy to install

## Specifications:

- **Form Factor:**  
M.2 2240/3040 B key
- **Display Output:**  
1 x LVDS connector (24-bit, dual-channel)
- **Display IC:**  
Chrontel CH7511B (DP to LVDS)
- **Power:**  
On-board 3.3V ~ 12V
- **Operating Temperature:**  
0°C ~ 60°C
- **Operating Humidity:**  
5% ~ 95%, non-condensing
- **Dimensions (LxW):**  
40 mm x 30 mm

## Ordering Information

- **iDPM-LVDS-R10**: eDP to 24-bit dual-channel LVDS converter board  
(for iEi Display Module Slot), RoHS

## Jumper Setting and Connector Pinouts

<b>J_VLVDS1: LVDS Power Selection</b>	
<b>PIN NO.</b>	<b>DESCRIPTION</b>
Short 1 - 2	+3.3V (default)
Short 2 - 3	+5V

<b>J_BL1: Backlight Enable Power Selection</b>	
<b>PIN NO.</b>	<b>DESCRIPTION</b>
Short 1 - 2	+3.3V (default)
Short 2 - 3	+5V

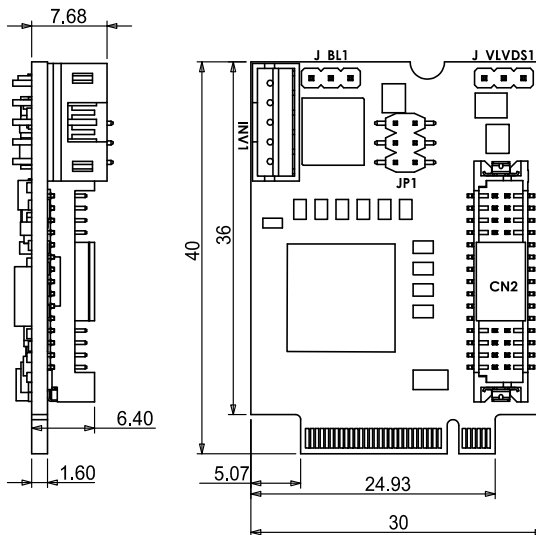
<b>JP1: Backlight Power Selection</b>	
<b>PIN NO.</b>	<b>DESCRIPTION</b>
Short 1 - 2	+12V (default)
Short 3 - 4	+5V
Short 5 - 6	+3.3V

<b>INV1: Backlight Inverter Connector</b>			
<b>PIN NO.</b>	<b>DESCRIPTION</b>	<b>PIN NO.</b>	<b>DESCRIPTION</b>
1	BACKLIGHT ADJUST	2	GROUND
3	+12V	4	GROUND
5	BACKLIGHT ENABLE		

<b>SW1: LVDS Panel Resolution Selection</b>	
<b>ON=0, OFF=1 (4-3-2-1)</b>	<b>DESCRIPTION</b>
0000	800x600 18-bit (default)
0001	1024x768 18-bit
0010	1024x768 24-bit
0011	1280x768 18-bit
0100	1280x800 18-bit
0101	1280x960 18-bit
0110	1280x1024 48-bit
0111	1366x768 18-bit
1000	1366x768 24-bit
1001	1440x960 48-bit
1010	1400x1050 48-bit
1011	1600x900 48-bit
1100	1680x1050 48-bit
1101	1600x1200 48-bit
1110	1920x1080 48-bit
1111	1920x1200 48-bit

CN2 : LVDS Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GROUND	2	GROUND
3	LVDS_A_TX0-P	4	LVDS_A_TX0-N
5	LVDS_A_TX1-P	6	LVDS_A_TX1-N
7	LVDS_A_TX2-P	8	LVDS_A_TX2-N
9	LVDS_A_TXCLK-P	10	LVDS_A_TXCLK-N
11	LVDS_A_TX3-P	12	LVDS_A_TX3-N
13	GROUND	14	GROUND
15	LVDS_B_TX0-P	16	LVDS_B_TX0-N
17	LVDS_B_TX1-P	18	LVDS_B_TX1-N
19	LVDS_B_TX2-P	20	LVDS_B_TX2-N
21	LVDS_B_TXCLK-P	22	LVDS_B_TXCLK-N
23	LVDS_B_TX3-P	24	LVDS_B_TX3-N
25	GROUND	26	GROUND
27	+LCD VCC	28	+LCD VCC
29	+LCD VCC	30	+LCD VCC

## Board Layout: Jumper and Connector Locations



(Unit:mm)