

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

iDPM-LVDS-R10
Quick Installation Guide
Version 1.0

April 18, 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

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

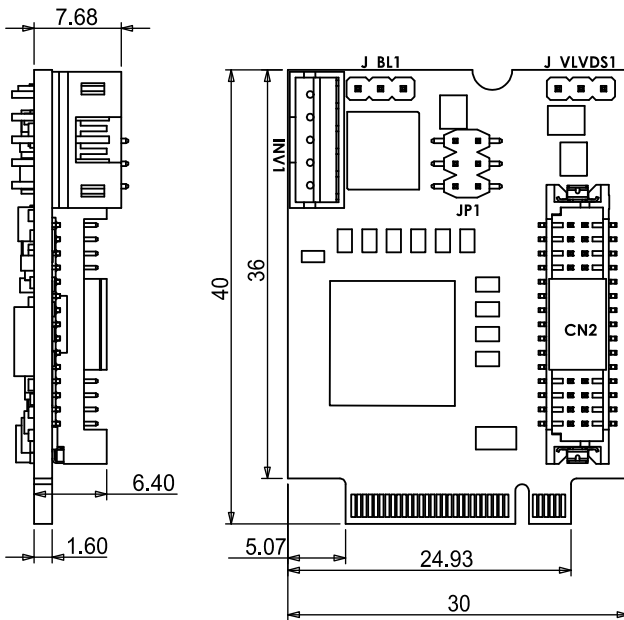
J_BL1: Backlight Enable Power Selection	
PIN NO.	DESCRIPTION
Short 1 - 2	+3.3V (default)
Short 2 - 3	+5V

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

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

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)